AUTHOR INDEX TO VOLUME 18
References with (E) are to Errata

ABASHIAN, A. (see Mischke, R. E.) 138; 383(E)
ABBUD, F., B. W. LEE, and C. N. YANG. Comments on measuring $\mathrm{Re}(A_2/A_0)$ in the decay $K_S^0 \to \pi+\pi$ 980
ABEL, W. R., R. T. JOHNSON, J. C. WHEATLEY, and W. ZIMMERMANN, JR. Thermal conductivity of pure He^3 and of dilute solutions of He^3 in He^4 at low temperatures 737
ABELES, B., ROGER W. COHEN, and W. R. STOWELL. Critical magnetic fields of granular superconductors 902
——— (see Cohen, Roger W.) 336
ABERS, ERNEST S., RICHARD E. NORTON, and DUANE A. DICUS. Electromagnetic corrections to the weak $\Delta S = 0$ vector coupling constant 676
ABOWITZ, G., E. ARNOLD, and J. LADELL. Symmetry of interface charge distribution in thermally oxidized silicon 543
ABRAMS, G. S., B. KEHOE, R. G. GLASSER, B. SECHI-ZORN, and G. WOLSKY. Resonance production in $\Xi K\pi$ and $YK\bar{K}$ final states from $K^- - p$ interactions at 4.25 BeV/c 620
ABRAMS, R. J., R. L. COOL, G. GIACOMELLI, T. F. KYCIA, B. A. LEONTIĆ, K. K. LI, and D. N. MICHAEL. Structures in the $\bar{p}p$ and $\bar{p}d$ total cross-sections between 1.0 and 3.3 GeV/c 1209
——— (see Mischke, R. E.) 138; 383(E)
ADLER, STEPHEN L. η decay, current algebra, and the C-nonconserving electromagnetic current 519; 1036(E)
AKERLOF, C. W. (see Ratner, L. G.) 1218
ALBERT, RICHARD D. Nearly monoenergetic electron fluxes detected during a visible aurora 369
ALBRECHT, W., H.-J. BEHREND, H. DORNER, W. FLAUGER, and H. HULTSCHIG. Some recent measurements of proton form factors 1014
ALDER, B. J. and T. E. WAINWRIGHT. Velocity autocorrelations for hard spheres 988
ALEXEFF, I., W. D. JONES, and R. V. NEIDIGH. Production of d-d reactions by beam-plasma interaction in the steady state 1109
AMMAR, R. (see Derrick, M.) 266
——— (see Mott, J.) 355
ANASTASSAKIS, E., S. IWASA, and E. BURSTEIN. Electric-field–induced infrared absorption in diamond 227(E)
ANASTASSIADES, A. J. and THOMAS C. MARSHALL. Scattering of microwaves from plasma space-charge waves near the harmonics of the electron gyrofrequency 1117
ANDELIN, JOHN. Effect of rotation on the dielectric constant of rotating helium 483
ANDERSON, C. H. and E. S. SABISKY. Sensitive tunable acoustical phonon detector 236
ANDERSON, H. L., S. FUKUI, D. KESSLER, K. A. KLARE, M. V. SHERBROOK, H. J. EVANS, R. L. MARTIN, E. P. HINCKS, N. K. SHERMAN, and P. I. P. KALMUS. Boson production in p-p collisions at 12.3 BeV/c 89; 276(E)
——— (see Kessler, D.) 1179
ANDERSON, P. W. Infrared catastrophe in Fermi gases with local scattering potentials 1049
ARMSTRONG, T. P. (see Krimigis, S. M.) 1204
ARNOLD, E. (see Abowitz, G.) 543
ASBURY, J. G., W. K. BERTRAM, U. BECKER, P. JOOS, M. ROHDE, A. J. S. SMITH, S. FRIEDLANDER, C. L. JORDAN, and C. C. TING. Validity of quantum electrodynamics at small distances 65
ATZMONY, U., E. R. BAUMINGER, J. HESS, A. MUSTACHI, and S. OFER. Isomer shifts in the $2^+ \to 0^+$ rotational transition of Yb^{170} 1061
AUCHAMPAUGH, G. F. (see Bowman, C. D.) 15

BABB, STANLEY E., JR. Melting relations 70(E)
BACHMAN, ALVIN H. (see Crennell, David J.) 323
BALDWIN, DAVID E. Reflection of a plasma wave at an electron sheath 1119
BALLINI, R., N. CINDRO, J. DELAUNAY, J. P. FOUAN, M. LORET, and J. P. PASSERIEUX. Excitation of simple configurations in the outgoing reaction channel 408
BALTAY, C., J. C. SEVERIENS, N. YEH, and D. ZANELLO. Observation of the B meson in the reaction $\bar{p}+p \to \omega^0+\pi^+ +\pi^-$ 93
BARDEEN, W. A., LOWELL S. BROWN, B. W. LEE, and H. T. NIEH. η decay and current algebra 1170
BARGER, V. and M. OLSSON. SU(3) symmetry tests for Regge residues 294
BARKAT, Z., G. RAKAVY, and N. SACK. Dynamics of supernova explosion resulting from pair formation 379
BARKER, P. R., W. E. HAZEN, and A. Z. HENDEL. Radio pulses from cosmic-ray air showers 51
BARNA, A., J. COX, F. MARTIN, M. L. PERL, T. H. TAN, W. T. TONER, T. F. ZIPF, and E. H. BELLAMY. Secondary particle yields at 0° from the new Stanford electron accelerator 360; 526(E)
BARNES, G. T. (see Gustafson, D. R.) 3
BARNES, VIRGIL E. (see Goldberg, Marvin) 680
BARSHAY, SAUL. Tests for CP noninvariance with $|\Delta T| > \frac{1}{2}$ in the partial rates for $K^\pm \to \pi^0 + \pi^\pm$ and $K^\pm \to \gamma + \pi^0 + \pi^\pm$ 515
———. Test of current algebra and electromagnetic C noninvariance in the reactions $\gamma + p$

AUTHOR INDEX TO VOLUME 18
References with (E) are to Errata

ABASHIAN, A. (see Mischke, R. E.) 138; 383(E)
ABBUD, F., B. W. LEE, and C. N. YANG. Comments on measuring $\mathrm{Re}(A_2/A_0)$ in the decay $K_S^0 \to \pi+\pi$ 980
ABEL, W. R., R. T. JOHNSON, J. C. WHEATLEY, and W. ZIMMERMANN, JR. Thermal conductivity of pure He^3 and of dilute solutions of He^3 in He^4 at low temperatures 737
ABELES, B., ROGER W. COHEN, and W. R. STOWELL. Critical magnetic fields of granular superconductors 902
——— (see Cohen, Roger W.) 336
ABERS, ERNEST S., RICHARD E. NORTON, and DUANE A. DICUS. Electromagnetic corrections to the weak $\Delta S = 0$ vector coupling constant 676
ABOWITZ, G., E. ARNOLD, and J. LADELL. Symmetry of interface charge distribution in thermally oxidized silicon 543
ABRAMS, G. S., B. KEHOE, R. G. GLASSER, B. SECHI-ZORN, and G. WOLSKY. Resonance production in $\Xi K\pi$ and $YK\bar{K}$ final states from $K^- - p$ interactions at 4.25 BeV/c 620
ABRAMS, R. J., R. L. COOL, G. GIACOMELLI, T. F. KYCIA, B. A. LEONTIĆ, K. K. LI, and D. N. MICHAEL. Structures in the $\bar{p}p$ and $\bar{p}d$ total cross-sections between 1.0 and 3.3 GeV/c 1209
——— (see Mischke, R. E.) 138; 383(E)
ADLER, STEPHEN L. η decay, current algebra, and the C-nonconserving electromagnetic current 519; 1036(E)
AKERLOF, C. W. (see Ratner, L. G.) 1218
ALBERT, RICHARD D. Nearly monoenergetic electron fluxes detected during a visible aurora 369
ALBRECHT, W., H.-J. BEHREND, H. DORNER, W. FLAUGER, and H. HULTSCHIG. Some recent measurements of proton form factors 1014
ALDER, B. J. and T. E. WAINWRIGHT. Velocity autocorrelations for hard spheres 988
ALEXEFF, I., W. D. JONES, and R. V. NEIDIGH. Production of d-d reactions by beam-plasma interaction in the steady state 1109
AMMAR, R. (see Derrick, M.) 266
——— (see Mott, J.) 355
ANASTASSAKIS, E., S. IWASA, and E. BURSTEIN. Electric-field–induced infrared absorption in diamond 227(E)
ANASTASSIADES, A. J. and THOMAS C. MARSHALL. Scattering of microwaves from plasma space-charge waves near the harmonics of the electron gyrofrequency 1117
ANDELIN, JOHN. Effect of rotation on the dielectric constant of rotating helium 483
ANDERSON, C. H. and E. S. SABISKY. Sensitive tunable acoustical phonon detector 236
ANDERSON, H. L., S. FUKUI, D. KESSLER, K. A. KLARE, M. V. SHERBROOK, H. J. EVANS, R. L. MARTIN, E. P. HINCKS, N. K. SHERMAN, and P. I. P. KALMUS. Boson production in p-p collisions at 12.3 BeV/c 89; 276(E)
——— (see Kessler, D.) 1179
ANDERSON, P. W. Infrared catastrophe in Fermi gases with local scattering potentials 1049
ARMSTRONG, T. P. (see Krimigis, S. M.) 1204
ARNOLD, E. (see Abowitz, G.) 543
ASBURY, J. G., W. K. BERTRAM, U. BECKER, P. JOOS, M. ROHDE, A. J. S. SMITH, S. FRIEDLANDER, C. L. JORDAN, and C. C. TING. Validity of quantum electrodynamics at small distances 65
ATZMONY, U., E. R. BAUMINGER, J. HESS, A. MUSTACHI, and S. OFER. Isomer shifts in the $2^+ \to 0^+$ rotational transition of Yb^{170} 1061
AUCHAMPAUGH, G. F. (see Bowman, C. D.) 15

BABB, STANLEY E., JR. Melting relations 70(E)
BACHMAN, ALVIN H. (see Crennell, David J.) 323
BALDWIN, DAVID E. Reflection of a plasma wave at an electron sheath 1119
BALLINI, R., N. CINDRO, J. DELAUNAY, J. P. FOUAN, M. LORET, and J. P. PASSERIEUX. Excitation of simple configurations in the outgoing reaction channel 408
BALTAY, C., J. C. SEVERIENS, N. YEH, and D. ZANELLO. Observation of the B meson in the reaction $\bar{p}+p \to \omega^0+\pi^+ +\pi^-$ 93
BARDEEN, W. A., LOWELL S. BROWN, B. W. LEE, and H. T. NIEH. η decay and current algebra 1170
BARGER, V. and M. OLSSON. SU(3) symmetry tests for Regge residues 294
BARKAT, Z., G. RAKAVY, and N. SACK. Dynamics of supernova explosion resulting from pair formation 379
BARKER, P. R., W. E. HAZEN, and A. Z. HENDEL. Radio pulses from cosmic-ray air showers 51
BARNA, A., J. COX, F. MARTIN, M. L. PERL, T. H. TAN, W. T. TONER, T. F. ZIPF, and E. H. BELLAMY. Secondary particle yields at 0° from the new Stanford electron accelerator 360; 526(E)
BARNES, G. T. (see Gustafson, D. R.) 3
BARNES, VIRGIL E. (see Goldberg, Marvin) 680
BARSHAY, SAUL. Tests for CP noninvariance with $|\Delta T| > \frac{1}{2}$ in the partial rates for $K^\pm \to \pi^0 + \pi^\pm$ and $K^\pm \to \gamma + \pi^0 + \pi^\pm$ 515
———. Test of current algebra and electromagnetic C noninvariance in the reactions $\gamma + p$

→ $\pi+N^*(1238)$ near threshold 970
BARTON, R. D. (see Kessler, D.) 1179
BARUT, A. O. and HAGEN KLEINERT. Resonance decays from O(3, 1) dynamics. A regularity in the partial decay widths 754
BASSEL, R. H. and C. WILKIN. Structure of the α particle from elastic proton scattering 871
BASSICHIS, W. H. and J. P. SVENNE. Parity mixing in nuclear Hartree-Fock calculations 80
BAUMEL, PHILIP (see Crennell, David J.) 323
BAUMINGER, E. R. (see Atzmony, U.) 1061
BAUR, M. E. and W. R. SALZMAN. Motion of OH^- impurity in KCl 590
BAYM, GORDON. Theory of first sound in dilute solutions of He^3 in He^4 at very low temperatures 71
BEALL, E. F. (see Devlin, T. J.) 54
BEAUPRE, J. (see Logan, R. K.) 259
BECKER, U. (see Asbury, J. G.) 65
BECKMAN, O., E. HANAMURA, and L. J. NEURINGER. Quantum limit galvanomagnetic phenomena in n-InSb 773
BEERS, R. H. (see Theriot, E. D., Jr.) 767
BEHREND, H.-J. (see Albrecht, W.) 1014
BELANGER, B. C. (see LeBlanc, M. A. R.) 844
BELL, ROBERT B., ROBERT P. ELY, and YU-LI PAN. Search for a Y_2^* resonance in the $\Sigma^-\pi^-$ channel 921
BELLAMY, E. H. (see Barna, A.) 360; 526(E)
BELLEMANS, A., M. GANCBERG, and M. KOHLER. Molecular dynamics of electric dipoles on a rigid lattice: The dielectric response function 1192
BENDER, P. L. Polarization of cosmic OH 18-cm radiation 562
BENNETT, G. W. (see Palevsky, H.) 1200
BENNETT, W. R., JR., V. P. CHEBOTAYEV, and J. W. KNUTSON, JR. Direct observation of collision broadening and effect of resonant interactions on gas-laser transitions 688
BERGAMINI, P. G., G. PALMAS, F. PIANTELLI, and M. RIGATO. Effect of physical state on the decay of ^{131}I and its daughter 468
BERGMAN, AMALIA, MENAHEM LEVINE, and JOSHUA JORTNER. Collision ionization of singlet excitons in molecular crystals 593
BERLINGHIERI, J., M. S. FARBER, T. FERBEL, B. FORMAN, A. C. MELISSINOS, T. YAMANOUCHI, and H. YUTA. Production of $K\pi\pi$ resonances at high energy 1087
BERINGER, ROBERT. Coulomb distortion in heavy-ion reactions 1005
BERKO, STEPHAN (see Mills, Allen P.) 420
BERMAN, DAVID (see Forward, Robert L.) 1071
BERMAN, S. M. Threshold KN^* production and current algebra 1081
BERNOW, S., S. DEVONS, I. DUERDOTH, D. HITLIN, J. W. KAST, E. R. MACAGNO, J. RAINWATER, K. RUNGE, and C. S. WU. Measurement of the nuclear gamma ray in muonic Sm^{152} 787
BERNSTEIN, E. M., G. G. OHLSEN, V. S. STARKOVICH, and W. G. SIMON. d-α double scattering 966
BERNSTEIN, HERBERT J. Spin precession during interferometry of fermions and the phase factor associated with rotations through 2π radians 1102
BERTRAM, W. K. (see Asbury, J. G.) 65
BETHE, H. A. (see Siemens, Philip J.) 704
BETHGE, K. and K. MEIER-EWERT. Disintegration of ^6Li 1010
BHATTACHERJEE, S. K., J. D. BOWMAN, and E. N. KAUFMANN. Magnetic moment of the first excited state of ^{114}Cd 223
BILPUCH, E. G. (see Wilhjelm, P.) 130
BIRMAN, JOSEPH L. Simplified theory of symmetry change in second-order phase transitions: Applications to V_3Si 39(E)
BISHOP, S. G. (see McCombe, B. D.) 748
BISWAS, N. N., N. M. CASON, I. DERADO, V. P. KENNEY, J. A. POIRIER, and W. D. SHEPHARD. Total pion-pion cross sections for the 2-GeV di-pion mass region 273
——— (see Cason, N. M.) 880
BLAND, R. W., M. G. BOWLER, J. L. BROWN, G. GOLDHABER, S. GOLDHABER, V. H. SEEGER, and G. H. TRILLING. Inelastic processes near the $T=1$ K^+p peak at 1250 MeV/c 1077
BLANPIED, W. A. (see Wehmann, A.) 929
BLATT, F. J., D. J. FLOOD, V. ROWE, P. A. SCHROEDER, and J. E. COX. Magnon-drag thermopower in iron 395
BLOEMBERGEN, N. (see Lee, C. H.) 167
BLUM, N. A. (see Frankel, Richard B.) 1051
BLUME, M. Temperature-dependent spin-spin relaxation times: Application to the Mössbauer spectra of ferric hemin 305
BOEHM, F. (see Chesler, R. B.) 953
——— (see Gokhale, B. G.) 957
BOHM, H. V. (see Smith, E.) 637
BOLLINGER, L. M. and G. E. THOMAS. Average widths for high-energy radiative transitions 1143
BOLON, G. C., D. GARELICK, S. HOMMA, R. LEWIS, W. LOBAR, D. LUCKEY, L. S. OSBORNE, R. SCHWITTERS, and J. UGLUM. Measurements of π^0 photoproduction cross sections for incident gamma-ray energies of 2.0 to 5.0 GeV 926
BONCZYK, P. A. (see Cordover, R. H.) 730; 1104(E)
BOOTH, BRUCE L. and A. W. EWALD. Screening-enhanced Shubnikov–de Haas oscillations in Sb-doped gray tin 491
BOSE, S. K., P. C. DeCELLES, and W. D. McGLINN. Algebraic structure resulting from superconvergence relations 873
BÖSENBERG, J. and H. RAETHER. Plasma-resonance emission of potassium, excited by light 397

BOWLER, M. G. (see Bland, R. W.) 1077
BOWMAN, C. D., G. F. AUCHAMPAUGH, W. F. STUBBINS, T. E. YOUNG, F. B. SIMPSON, and M. S. MOORE. Evidence for the slow-neutron, gamma-fission reaction in Pu^{238} 15
BOWMAN, J. D. (see Bhattacherjee, S. K.) 223
BOYARSKI, A., F. BULOS, W. BUSZA, D. COWARD, R. DIEBOLD, J. LITT, A. MINTEN, B. RICHTER, and R. TAYLOR. Small-angle pion flux produced in a thick beryllium target by high-energy electrons 363
BRACEWELL, R. N. (see Conklin, E. K.) 614
BRANDT, OGDEN G. and CHARLES T. WALKER. Temperature dependence of elastic constants and thermal expansion for UO_2 11
BREAZEALE, B. H. (see Williams, R. L.) 1129
BREWER, R. G. and C. H. TOWNES. Standing waves in self-trapped light filaments 196
BREWS, J. R. Energy band changes in perovskites due to lattice polarization 662
BRIDWELL, L. B. (see Moak, C. D.) 41
BRINKMAN, W. F. (see Bucher, E.) 1125
BROCKHOUSE, B. N. (see Svensson, E. C.) 858
BROCKMEIER, R. T. (see Chesler, R. B.) 953
BRONZAN, J. B., I. S. GERSTEIN, B. W. LEE, and F. E. LOW. Current algebra and non-Regge behavior of weak amplitudes 32
BROMLEY, D. A. (see Casten, R. F.) 912
BROWN, J. L. (see Bland, R. W.) 1077
BROWN, J. S. and G. K. HORTON. Model potentials and the dispersion law in solid krypton 647
BROWN, LOWELL S. (see Bardeen, W. A.) 1170
BUCHER, E., W. F. BRINKMAN, J. P. MAITA, and H. J. WILLIAMS. Magnetic susceptibility and specific heat of nearly ferromagnetic NiRh alloys 1125
BUDNICK, J. I. (see Gegenwarth, R. E.) 9
BUDNITZ, R. J. (see Goitein, M.) 1016
BUGG, D. V. (see Davies, J. D.) 62
BULOS, F. (see Boyarski, A.) 363
BURGINYON, G. A. (see Casten, R. F.) 912
BURSTEIN, E. (see Anastassakis, E.) 227(E)
—— (see Kaplan, R.) 159
—— (see Salaneck, W.) 779
—— (see Sawada, Y.) 776
BURTON, JAMES J. and GEORGE JURA. Phase transformations in solid surfaces 740; 938(E)
BUSCHHORN, G., J. CARROLL, R. D. EANDI, P. HEIDE, R. HÜBNER, W. KERN, U. KÖTZ, P. SCHMÜSER, and H. J. SKRONN. π^+ photoproduction between 1.2 and 3 GeV at very small angles 571
BUSZA, W. (see Boyarski, A.) 363
BYER, R. L. (see Harris, S. E.) 732
BYERS BROWN, W. and RONALD J. WHITE. Analytic power-series solution of the Schrödinger equation for the helium atom 1037; 1178(E)
—— and RONALD J. WHITE. Integral series solution of the Schrödinger equation for the helium atom 1039; 1178(E)

CALAPRICE, FRANK P., EUGENE D COMMINS, HYATT M. GIBBS, GERALD L. WICK, and DAVID A. DOBSON. Test of time-reversal invariance in the beta decay of Ne^{19} 918
CALDWELL, D. O. (see Dowd, J. P.) 414
CALLAN, CURTIS G., JR., and S. B. TREIMAN. Lower bound on the decay rate for $\eta \to \mu^+ + \mu^-$ 1083
CAMPBELL, W. B. (see Urvater, E.) 1156
CARBOTTE, J. P. Coulomb hole about a light test charge in an electron gas at metallic densities 837
—— (see Kim, S. M.) 385; 526(E)
CARMONY, D. DUANE, T. HENDRICKS, and RICHARD L. LANDER. Reaction $K^- + p \to K^- + p + \omega^0$ at 3.8 GeV/c 615
CAROLI, CHRISTIANE and KAZUMI MAKI. Helicon modes in pure type-II superconductors in the high-field region 698
CARPENTER, D. W. (see Mischke, R. E.) 138; 383(E)
CARROLL, J. (see Buschhorn, G.) 571
—— (see Walker, W. D.) 630
CARROLL, L. (see Goitein, M.) 1016
CARRUTHERS, P. Locality and the isospin of self-conjugate bosons 353
—— and MICHAEL MARTIN NIETO. Dynamical model for negative-parity Regge trajectories in the pion-nucleon system 297
CARTER, A. A. Evidence for an $S=+1, I=0$ resonance in the K^+-nucleon system 801
—— (see Davies, J. D.) 62
CASON, N. M., J. W. LAMSA, N. N. BISWAS, I. DERADO, T. H. GROVES, V. P. KENNEY, J. A. POIRIER, and W. D. SHEPHARD. Study of the $\pi\rho$ system in the reaction $\pi^- + p \to \pi^- + \rho^0 + p$ at 8 GeV/c 880
—— (see Biswas, N. N.) 273
CASTEN, R. F., J. S. GREENBERG, G. A. BURGINYON, and D. A. BROMLEY. Experimental tests of recent pairing-plus-quadrupole model calculations in the osmium nuclei 912
CERNY, JOSEPH (see McGrath, Robert L.) 243
CHANDRASEKHAR, B. S., D. E. FARRELL, and S. HUANG. Use of point contacts to obtain direct evidence of flux motion in superconductors 43
—— (see Khorana, B. M.) 230
CHANG, R. K. (see Lee, C. H.) 167
CHAPMAN, R. A. and W. G. HUTCHINSON. Photoexcitation and photoionization of neutral manganese acceptors in gallium arsenide 443; 822(E)
CHASE, R. C., P. ROTHWELL, and ROY WEINSTEIN. Search for the decay of photo-

produced φ mesons into $\mu^+ + \mu^-$ 710
CHASMAN, C., K. W. JONES, R. A. RISTINEN, and J. T. SAMPLE. Gamma-ray branching from the Ca^{49} ground-state analog in Sc^{49} 219
CHEBOTAYEV, V. P. (see Bennett, W. R., Jr.) 688
CHEN, FRANCIS F. and DAVID MOSHER. Shear stabilization of a potassium plasma 639
CHEN, J. (see Goitein, M.) 1016
CHESLER, R. B., F. BOEHM, and R. T. BROCKMEIER. Isotope shift measurements using K x rays in Sn, Sm, and W 953
——— (see Gokhale, B. G.) 957
CHESNUT, DWAYNE A. (see Ree, Francis H.) 5
CHO, C. W., N. D. FOLTZ, D. H. RANK, and T. A. WIGGINS. Stimulated Rayleigh scattering 107
CHU, B. Observation of time-dependent concentration fluctuations in critical mixtures 200
CHUNG, SUH URK, ORIN I. DAHL, LYNDON M. HARDY, RICHARD I. HESS, JANOS KIRZ, and DONALD H. MILLER. Decay properties of the $A_2(1310)$ meson 100
CINDRO, N. (see Ballini, R.) 408
COHEN, B. L., E. C. MAY, and T. M. O'KEEFE. Detection of the singlet deuteron (d') and the reaction $Be^9(p,d')Be^8$ 962
COHEN, ROGER W., B. ABELES, and GABRIEL S. WEISBARTH. Strong-coupling superconductivity in gallium 336
——— (see Abeles, B.) 902
COMMINS, EUGENE D. (see Calaprice, Frank P.) 918
——— (see Kocher, Carl A.) 575
CONKLIN, E. K. and R. N. BRACEWELL. Isotropy of cosmic background radiation at 10 690 MHz 614
CONWELL, E. M. Hot-electron–phonon interactions in GaP 1004
COOL, R. L. (see Abrams, R. J.) 1209
COOPER, B. R., R. C. FEDDER, and D. P. SCHUMACHER. Paramagnetic resonance in an excited state of TmN: Crystal-field and exchange effects 744
COOPER, J. and G. K. OERTEL. Stark broadening of isolated ion lines in a plasma 985
COPPI, B. (see Hendel, H. W.) 438
CORDOVER, R. H., P. A. BONCZYK, and A. JAVAN. Precise isotope shift measurements using line narrowing induced by laser radiation 730; 1104(E)
CORLEY, D. M. (see Palevsky, H.) 1200
CORNWALL, JOHN M. and SHARASHCHANDRA H. PATIL. Magnetic contribution to the proton-neutron mass difference 757
COSPER, S. W. (see McGrath, Robert L.) 243
COSTA, G. and P. K. KABIR. Possible CP-noninvariant effects in $\pi\pi\gamma$ decay of charged K mesons 429; 526(E)
COTTINGHAM, W. N. and J. GIBB. Dispersion relations and the proton-neutron mass difference 883
COWAN, DAVID L. Paramagnetic resonance transmission in copper-dilute manganese alloys 770
COWARD, D. (see Boyarski, A.) 363
COWLEY, R. A., P. MARTEL, and R. W. H. STEVENSON. Spin-wave and exciton dispersion relations of cobalt fluoride 162
COX, J. (see Barna, A.) 360; 526(E)
COX, J. E. (see Blatt, F. J.) 395
CRABB, D. G. (see Ratner, L. G.) 1218
CRAWFORD, FRANK S., JR. (see Price, LeRoy) 1207
CRENNELL, DAVID J., PAUL V. C. HOUGH, GEORGE R. KALBFLEISCH, KWAN WU LAI, J. MICHAEL SCARR, THOMAS G. SCHUMANN, IAN O. SKILLICORN, RICHARD C. STRAND, MEDFORD S. WEBSTER, PHILIP BAUMEL, ALVIN H. BACHMAN, and ROBERT M. LEA. Evidence for an $I=1$ di-pion resonance at 1.63 GeV 323
———, GEORGE R. KALBFLEISCH, KWAN WU LAI, J. MICHAEL SCARR, THOMAS G. SCHUMANN, IAN O. SKILLICORN, and MEDFORD S. WEBSTER. Observation of a backward peak in the reaction $\pi^- + p \to Y^0 + K^0$ at 6 GeV/c 86
CREVELING, L., H. L. LUO, and G. S. KNAPP. Ferromagnetism in Au_4V 851
CROMPTON, R. W. and A. I. McINTOSH. Electron transport coefficients in gaseous parahydrogen 527
CRONIN, JAMES W., PAUL F. KUNZ, WINTHROP S. RISK, and PAUL C. WHEELER. Measurement of the decay rate of $K_2^0 \to \pi^0 + \pi^0$ 25; 152(E)
CROSLEY, DAVID R. and RICHARD N. ZARE. Molecular level-crossing spectroscopy: The g value for an excited state of nitric oxide 942
CSONKA, P. L. (see Gutay, L. J.) 142
CULVAHOUSE, J. W., DAVID P. SCHINKE, and DONALD L. FOSTER. Electric-field-induced transitions in electron paramagnetic resonance of non-Kramers doublets 117
CUTHBERT, J. D. (see Dean, P. J.) 122
CZJZEK, GORDON, J. L. C. FORD, JR., JOHN C. LOVE, FELIX E. OBENSHAIN, and HORST H. F. WEGENER. Coulomb-recoil-implanation Mössbauer experiments with ^{73}Ge 529

DAHL, ORIN I. (see Chung, Suh Urk) 100
DAKSS, M. L. and R. L. MIEHER. Electron-nuclear double-resonance study of an H center in LiF 1056
DALGARNO, A. (see Victor, G. A.) 1105
DANIELS, W. B., G. SHIRANE, B. C. FRAZER, H. UMEBAYASHI, and J. A. LEAKE. Phonon-dispersion measurements on a krypton single crystal 548
DAS, T., G. S. GURALNIK, V. S. MATHUR, F. E. LOW, and J. E. YOUNG. Electromag-

netic mass difference of pions 759
——, V. S. MATHUR, and S. OKUBO. Symmetry, superconvergence, and sum rules for spectral functions 761
DATZ, S. (see Moak, C. D.) 41
DAVIES, J. D., J. D. DOWELL, P. M. HATTERSLEY, R. J. HOMER, A. W. O'DELL, A. A. CARTER, K. F. RILEY, R. J. TAPPER, D. V. BUGG, R. S. GILMORE, K. M. KNIGHT, D. C. SALTER, G. H. STAFFORD, and E. J. N. WILSON. Structure in the K^--nucleon total cross sections between 600 and 1400 MeV/c 62
DAVIS, E. A. (see Drews, R. E.) 1194
DAVIS, R. E. P. (see Derrick, M.) 266
—— (see Mott, J.) 355
DAY, J. L. (see Ratner, L. G.) 1218
DAY, P. (see Gaillard, J.-M.) 20
DAYBELL, M. D. and W. A. STEYERT. Observation of Nagaoka's bound state for conduction electrons in dilute magnetic alloys 398; 574(E)
DAYEM, ALY H. (see Eisenmenger, W.) 125
—— (see Miller, Barry I.) 1000
DEAN, P. J., J. D. CUTHBERT, D. G. THOMAS, and R. T. LYNCH. Two-electron transitions in the luminescence of excitons bound to neutral donors in gallium phosphide 122
DeCELLES, P. C. (see Bose, S. K.) 873
DECKER, W. R., D. T. PETERSON, and D. K. FINNEMORE. Meissner effect for superconductors with magnetic impurities 899
de LANY, VINCENT M., DAVID J. GROSS, I. J. MUZINICH, and V. L. TEPLITZ. Polarization test for cuts in angular momentum 148
DELAUNAY, J. (see Ballini, R.) 408
DELL, G. F. (see Goitein, M.) 1016
DERADO, I. (see Biswas, N. N.) 273
—— (see Cason, N. M.) 880
DERRICK, M., T. FIELDS, J. LOKEN, R. AMMAR, R. E. P. DAVIS, W. KROPAC, J. MOTT, and F. SCHWEINGRUBER. Excited hyperon of mass 1680 MeV 266
—— (see Mott, J.) 355
DESAI, BIPIN R., DAVID T. GREGORICH, and R. RAMACHANDRAN. πN charge-exchange polarization and the baryon trajectories in the direct channel 565
de SWART, J. J. Search for quarks 618
DEVLIN, T. J., J. SOLOMON, P. SHEPARD, E. F. BEALL, and G. A. SAYER. Measurement of the K_2^0 mean life 54
DEVONS, S. (see Bernow, S.) 787
DeWAMES, R. E. and L. A. VREDEVOE. Electron-magnon scattering and polarization of the scattered beam 853
DHEZ, P. (see Jaegle, P.) 887
DICKE, R. H. and H. MARK GOLDENBERG. Solar oblateness and general relativity 313
DICKEY, D. H., E. J. JOHNSON, and D. M. LARSEN. Polaron effects in the cyclotron-resonance absorption of InSb 599
DICUS, DUANE A. (see Abers, Ernest S.) 676
DIEBOLD, R. (see Boyarski, A.) 363
DIKMEN, F. NED. Critique of Regge-poles interpretation of backward $\pi^- p$ elastic scattering 798
DIXIT, M. S. (see Kessler, D.) 1179
DOBSON, DAVID A. (see Calaprice, Frank P.) 918
DONIACH, S. Effect of band structure on mass renormalization in palladium 554
—— (see Spencer, H. J.) 994
DORNAN, PETER J. (see Goldberg, Marvin) 680
DORNER, H. (see Albrecht, W.) 1014
DOUGLASS, DAVID H., JR. (see Norman, Scott L.) 339
DOWD, J. P., D. O. CALDWELL, K. HEINLOTH, and T. R. SHERWOOD. Photoproduction of charged pions by 2- to 5-GeV tagged γ rays 414
DOWELL, J. D. (see Davies, J. D.) 62
DOWLEY, M. W., K. B. EISENTHAL, and W. L. PETICOLAS. Laser-produced dielectric breakdown in liquids with resulting absorption of a secondary light beam 531
DREWS, R. E., E. A. DAVIS, and A. G. LEIGA. Reflectivity spectra of $Cd_{1-x}Zn_xS$ single crystals 1194
DRICKEY, D. J. (see Wehmann, A.) 929
DUERDOTH, I. (see Bernow, S.) 787
DUKE, C. B. (see Silverstein, S. D.) 695; 885(E)
DUNIFER, GERALD (see Schultz, Sheldon) 283
DUNNING, J. R., JR. (see Goitein, M.) 1016
—— (see Goitein, M.) 1018
DURAND, LOYAL, III. Subsidiary Regge trajectories with singular residues. Nucleon-nucleon scattering 58
DURSO, J. W. (see Signell, Peter) 185
DWORETSKY, S., R. NOVICK, W. W. SMITH, and N. TOLK. Gross failure of the conventional adiabatic criterion; structure and coherence in the low-energy excitation of helium atoms by helium ions 939

EANDI, R. D. (see Buschhorn, G.) 571
ECKELT, P., O. MADELUNG, and J. TREUSCH. Band structure of cubic ZnS (Korringa-Kohn-Rostoker method) 656
EDEN, R. C., J. L. MOLL, and W. E. SPICER. Experimental evidence for optical population of the X minima in GaAs 597
EDWARDS, K. W. (see Ratner, L. G.) 1218
EHRLICH, R. D., D. FRYBERGER, D. A. JENSEN, C. NISSIM-SABAT, R. J. POWERS, V. L. TELEGDI, and C. K. HARGROVE. Precise measurements of muonic isotope shifts for 29 nuclides, in particular for the Ca isotopes 40, 42, 44, and 48 959
EISENHANDLER, E., J. FEIGENBAUM, N. MISTRY, P. MOSTEK, D. RUST,

A. SILVERMAN, C. SINCLAIR, and R. TALMAN. Photoproduction of wide-angle electron pairs from carbon 425
EISENMENGER, W. and A. H. DAYEM. Quantum generation and detection of incoherent phonons in superconductors 125
EISENTHAL, K. B. (see Dowley, M. W.) 531
EISNER, R. L. (see Yen, W. L.) 1091
ELBAUM, C. (see Hikata, A.) 750
ELITZUR, M. and H. R. RUBINSTEIN. Scattering lengths in the quark model 417
ELLIS, J. (see Veeser, L.) 1063
ELY, ROBERT P. (see Bell, Robert B.) 921
ENGELHARDT, J. J. (see Matthias, B. T.) 781
ENGELS, E., JR. (see Wehmann, A.) 929
EPSTEIN, K. J. Generalization of electromagnetic potentials 255; 482(E)
ESTLE, T. L. (see Höchli, U. T.) 128
EVANS, H. J. (see Anderson, H. L.) 89; 276(E)
——— (see Kessler, D.) 1179
EWALD, A. W. (see Booth, Bruce L.) 491

FAGEN, E. A. and M. P. GARFUNKEL. High-frequency effects in the acoustic attenuation of superconducting aluminum 897
FAISSNER, H. (see Gaillard, J.-M.) 20
FARBER, M. S. (see Berlinghieri, J.) 1087
FARRELL, D. E. (see Chandrasekhar, B. S.) 43
FAYYAZUDDIN and RIAZUDDIN. Current algebra and radiative decays of mesons 715
FEDDER, R. C. (see Cooper, B. R.) 744
FEIGENBAUM, J. (see Eisenhandler, E.) 425
FELDMAN, M., W. FRATI, G. GLEESON, J. HALPERN, M. NUSSBAUM, and S. RICHERT. Neutral decay modes of the η meson 868
FERBEL, T. (see Berlinghieri, J.) 1087
FERRARO, J. R. (see Mitra, S. S.) 455
FERRELL, R. A., N. MENYHÁRD, H. SCHMIDT, F. SCHWABL, and P. SZÉPFALUSY. Dispersion in second sound and anomalous heat conduction at the lambda point of liquid helium 891
FESSENDEN, TH. J. (see Herrmann, W.) 535
FIELDS, T. (see Derrick, M.) 266
——— (see Mott, J.) 355
FINNEMORE, D. K. (see Decker, W. R.) 899
FIRESTONE, A., J. K. KIM, J. LACH, J. SANDWEISS, H. D. TAFT, and P. GUIDONI. Energy dependence of the form factor in $K_{e3}{}^0$ decay 176
FLATTÉ, STANLEY M. Search for $\eta \to \pi^+ + \pi^- + \pi^0 + \gamma$ 976
———, ROGER A. GEARHART, TODD HAUSER, JOSEPH J. MURRAY, R. MORGADO, M. PETERS, P. R. KLEIN, L. H. JOHNSTON, and STANLEY G. WOJCICKI. Particle yields at the Stanford two-mile electron accelerator 366
FLAUGER, W. (see Albrecht, W.) 1014
FLEMING, GORDON N. and E. KAZES. Microcausality and the representations of self-conjugate bosons 764; 938(E)
FLEURY, P. A., S. P. S. PORTO, and R. LOUDON. Two-magnon light scattering in antiferromagnetic MnF_2 658
——— and J. M. WORLOCK. Electric-field-induced Raman effect in paraelectric crystals 665
——— (see Slusher, R. E.) 77; 227(E)
FLOOD, D. J. (see Blatt, F. J.) 395
FOLTZ, N. D. (see Cho, C. W.) 107
FORD, J. L. C., JR. (see Czjzek, Gordon) 529
FORD, W. T., A. LEMONICK, Y. NAUENBERG, and P. A. PIROUÉ. Comparison of the K^+ and K^- decay rates into the τ and $K_{\mu 2}$ modes 1214
FORMAN, B. (see Berlinghieri, J.) 1087
FORWARD, ROBERT L. and DAVID BERMAN. Gravitational-radiation detection range for binary stellar systems 1071
FOSTER, DONALD L. (see Culvahouse, J. W.) 117
FOTINO, M. (see Goitein, M.) 1016
FOUAN, J. P. (see Ballini, R.) 408
FOX, A. G. and P. W. SMITH. Mode-locked laser and the 180° pulse 826
FOX, G. C. and ELLIOT LEADER. Factorization of helicity amplitudes at high energies 628; 766(E)
FRANCO, VICTOR. Possible nonadditivity of quark amplitudes in high-energy cross sections 1159
FRANKEL, RICHARD B., N. A. BLUM, BRIAN B. SCHWARTZ, and DUK JOO KIM. Mössbauer evidence for a spin-compensated state in dilute Fe-Cu alloys
——— (see Yeboah-Amankwah, D.)
FRATI, W. (see Feldman, M.) 868
FRAZER, B. C. (see Daniels, W. B.) 548
FREEDMAN, DANIEL Z. and JIUNN-MING WANG. O(4) symmetry and Regge-pole theory 863
FREELAND, P. E. (see Patel, J. R.) 833
FREUND, ISAAC and P. M. RENTZEPIS. Second-harmonic generation in liquid crystals 393
FRIEDES, J. L. (see Palevsky, H.) 1200
FRIEDLANDER, S. (see Asbury, J. G.) 65
FRISCH, H. L. and J. R. PATEL. Chemical influence of holes and electrons on dislocation velocity in semiconductors 784
FROSCH, R. F. (see Rand, R. E.) 469
FRYBERGER, D. (see Ehrlich, R. D.) 959
FRYE, GLENN M., JR., and CHIA PING WANG. Reported cosmic gamma-ray source in Cygnus 132
FUCHS, NORMAN H. Dispersion-theoretic approach to current algebras 373
FUKUI, S. (see Anderson, H. L.) 89; 276(E)
FULLER, ROBERT G. (see Patterson, David A.) 1123

GAILLARD, J.-M., F. KRIENEN, W. GALBRAITH, A. HUSSRI, M. R. JANE, N. H. LIPMAN, G. MANNING, T. RATCLIFFE, P. DAY, A. G. PARHAM, B. T. PAYNE, A. C. SHERWOOD, H. FAISSNER, and H. REITHLER. Measurement of the decay of the long-lived neutral K meson into two neutral pions 20
GAJDICAR, T. J. and J. W. MOFFAT. Asymptotic predictions of forward π-N dispersion relations 1153
GAL, A. Evidence for ΛNN repulsive forces from p-shell hypernuclei 568
GALBRAITH, W. (see Gaillard, J.-M.) 20
GANCBERG, M. (see Bellemans, A.) 1192
GARBER, M. (see Schweitzer, Donald G.) 206
GARCIA, J. D. and E. GERJUOY. Charge transfer in the classical binary encounter approximation 944
GARELICK, D. (see Bolon, G. C.) 926
GARFINKEL, A. (see Walker, W. D.) 630
GARFUNKEL, M. P. (see Fagen, E. A.) 897
GATTO, R. New sum rules from superconvergence 803
———, L. MAIANI, and G. PREPARATA. Electric dipole operators in the configuration mixing scheme 97
GAUSTER, W. B. and D. H. HABING. Electronic volume effect in silicon 1058
GEARHART, ROGER A. (see Flatté, Stanley M.) 366
GEGENWARTH, R. E., J. I. BUDNICK, S. SKALSKI, and J. H. WERNICK. Gadolinium hyperfine fields 9
GERJUOY, E. (see Garcia, J. D.) 944
GERSTEIN, I. S. (see Bronzan, J. B.) 32
GHIORSO, ALBERT, TORBJORN SIKKELAND, and MATTI J. NURMIA. Isotopes of element 102 with mass 251 to 258 401
GIACOMELLI, G. (see Abrams, R. J.) 1209
GIBB, J. (see Cottingham, W. N.) 883
GIBBS, HYATT M. (see Calaprice, Frank P.) 918
GIFFARD, R. P. and J. HATTON. Influence of He^4 on exchange-lattice relaxation in solid He^3 1106
GILMAN, FREDERICK J. and HAIM HARARI. Saturation of superconvergence relations and current-algebra sum rules for forward amplitudes 1150
GILMORE, R. S. (see Davies, J. D.) 62
GLADSTONE, G. (see Jensen, M. A.) 997
GLASHOW, S. L. Kaon decay and pion phase shifts 524
GLASSER, R. G. (see Abrams, G. S.) 620
GLEESON, R. (see Feldman, M.) 868
GOITEIN, M., R. J. BUDNITZ, L. CARROLL, J. CHEN, J. R. DUNNING, JR., K. HANSON, D. IMRIE, C. MISTRETTA, J. K. WALKER, RICHARD WILSON, G. F. DELL, M. FOTINO, J. M. PATERSON, and H. WINICK. Measurements of elastic electron-proton scattering at high momentum transfer by a coincidence technique 1016
———, J. R. DUNNING, JR., and RICHARD WILSON. Comparison of elastic electron-proton scattering cross sections with some theoretical predictions 1018
GOKHALE, B. G., R. B. CHESLER, and F. BOEHM. Chemical shift of the $K\alpha_1$ x ray of tin in its oxides 957
GOLDBERG, MARVIN, BARTON GOZ, JACK LEITNER, VIRGIL E. BARNES, PETER J. DORNAN, GEORGE R. KALBFLEISCH, and IAN O. SKILLICORN. Spin and parity of the $K^*(1420)$ meson 680
GOLDENBERG, H. MARK (see Dicke, R. H.) 313
GOLDHABER, G. (see Bland, R. W.) 1077
GOLDHABER, S. (see Bland, R. W.) 1077
GOLDWIRE, H. C., JR. Ground-state hyperfine splitting of singly charged helium-3 433
GOLOWICH, E. Dynamics of positive-parity baryon excited states 633
GOMEZ, R., H. KOBRAK, A. MOLINE, J. MULLINS, C. ORTH, J. VAN PUTTEN, and G. ZWEIG. Search for fractionally charged particles in cosmic rays near sea level 1022
GOODKIND, J. M. (see Osgood, E. B.) 894
GOTTFRIED, KURT. Sum rule for high-energy electron-proton scattering 1174
GOTTSCHALK, B. (see Palevsky, H.) 1200
GOZ, BARTON (see Goldberg, Marvin) 680
GOZA, E. R. (see Kotelchuck, D.) 1166
GRAD, HAROLD. Some new stable toroidal plasma configurations 585
GRAVATT, C. C. Measurement of relaxation times of concentration fluctuations by the electric field effect on critical opalescence 948
GREEN, M. S., M. VICENTINI-MISSONI, and J. M. H. LEVELT SENGERS. Scaling-law equation of state for gases in the critical region 1113
GREENBERG, J. S. (see Casten, R. F.) 912
GREGORICH, DAVID T. (see Desai, Bipin R.) 565
GRIFFITHS, D. J. (see LeBlanc, M. A. R.) 844
GRODZINS, L. (see Yeboah-Amankwah, D.) 791
GROFF, R. P. (see Parks, R. D.) 342
GROSCH, CHESTER E. and HAROLD SALWEN. Hydrodynamic stability of a modulated shear flow 946
GROSS, DAVID J. (see de Lany, Vincent M.) 148
GROSS, E. E. (see Morton, B. J.) 1007
GROVES, T. H. (see Cason, N. M.) 880
GUIDONI, P. (see Firestone, A.) 176
GURALNIK, G. S. (see Das, T.) 759
GUSTAFSON, D. R. and G. T. BARNES. Effect of magnetic field orientation on positron annihilation in potassium 3
GUTAY, L. J., P. B. JOHNSON, F. J. LOEFFLER, R. L. McILLWAIN, D. H. MILLER, R. B. WILLMANN, and P. L. CSONKA. Study of the $\pi\pi$ S-wave phase shift in the ρ region taking into account absorption

effects 142
——— (see Yen, W. L.) 1091

HABING, D. H. (see Gauster, W. B.) 1058
HAEBERLI, W. (see Trier, A.) 915
——— (see Veeser, L.) 1063
HAHN, E. L. (see McCall, S. L.) 908
HALPERN, J. (see Feldman, M.) 868
HAMMOND, R. H. and G. M. KELLY. Vanishing Knight shift in superconducting aluminum 156
HANAMURA, E. (see Beckman, O.) 773
HAND, L. N. (see Wehmann, A.) 929
HANNA, S. S. (see Sprouse, G. D.) 1041
HANSON, K. (see Goitein, M.) 1016
HAPPER, W. and B. S. MATHUR. Off-resonant light as a probe of optically pumped alkali vapors 577
——— and B. S. MATHUR. Coherent detection of a new type of optical double-quantum transition 727
HARARI, HAIM. New sum rules for Compton scattering 319
——— (see Gilman, Frederick J.) 1150
HARDY, LYNDON M. (see Chung, Suh Urk) 100
HARGROVE, C. K. (see Ehrlich, R. D.) 959
——— (see Kessler, D.) 1179
HARRINGTON, DAVID R. and ANTONIO PAGNAMENTA. Double-scattering contributions to the proton-proton differential cross section in the quark model 1147
HARRIS, S. E., M. K. OSHMAN, and R. L. BYER. Observation of tunable optical parametric fluorescence 732
HARRISON, E. R. Matter, antimatter, and the origin of galaxies 1011
HARTMAN, P. L. (see Logothetis, E. M.) 581
HATTERSLEY, P. M. (see Davies, J. D.) 62
HATTON, J. (see Giffard, R. P.) 1106
HAUSER, TODD (see Flatté, Stanley M.) 366
HAYMAKER, RICHARD W. Phase shifts from the Bethe-Salpeter differential equation 968
HAZEN, W. E. (see Barker, P. R.) 51
HEAD, A. K. Abnormal damping by unstable dislocations in anisotropic crystals 484
HEEGER, A. J. and M. A. JENSEN. Ground state of the Kondo many-body scattering problem 488
——— (see Jensen, M. A.) 997
HEIDE, P. (see Buschhorn, G.) 571
HEILMEIER, GEORGE H. and PHILIP M. HEYMAN. Note on transient current measurements in liquid crystals and related systems 583
HEINLOTH, K. (see Dowd, J. P.) 414
HELLAND, JEROME A. (see Young, Kenneth K.) 806
HENDEL, A. Z. (see Barker, P. R.) 51
HENDEL, H. W., B. COPPI, F. PERKINS, and P. A. POLITZER. Collisional effects in plasmas—drift-wave experiments and interpretation 438
HENDRICKS, T. (see Carmony, D. Duane) 615
HERMAN, FRANK (see Shay, J. L.) 649
HERMAN, R. M. Quantum theory of linewidths in Brillouin scattering from pure sound fields in the low-damping limit 559
HERRMANN, G. F. (see Hill, R. M.) 105
HERRMANN, W. and TH. J. FESSENDEN. Excitation of electron-plasma waves by the interaction of an ion beam with a plasma 535
HERMANSON, J. Existence of hyperbolic excitons 170
HESS, J. (see Atzmony, U.) 1061
HESS, RICHARD I. (see Chung, Suh Urk) 100
HEYMAN, PHILIP M. (see Heilmeier, George H.) 583
HIKATA, A. and C. ELBAUM. Ultrasonic attenuation in normal and superconducting lead; electronic damping of dislocations 750
HILGNER, W. and J. KESSLER. Electron spin polarization by electron-molecule collisions 983
HILL, D. A. (see Hwang, Chester F.) 110
HILL, R. M., D. E. KAPLAN, G. F. HERRMANN, and S. K. ICHIKI. Emission microwave spectroscopy: OCS 105
HINCKS, E. P. (see Anderson, H. L.) 89; 276(E)
——— (see Kessler, D.) 1179
HINES, WILLIAM A. and W. D. KNIGHT. Nuclear magnetic resonance in superconducting lead 341
——— (see Wright, Fulton, Jr.) 114
HIRST, L. L. Comments on "Paramagnetic resonance transmission in gadolinium" 229
HITLIN, D. (see Bernow, S.) 787
HÖCHLI, U. T. and T. L. Estle. Paramagnetic-resonance study of the dynamic Jahn-Teller effect in $CaF_2:Sc^{2+}$ and $SrF_2:Sc^{2+}$ 128
HOFF, G. T. Proof that the near-forward minimum and secondary peak in $\pi^- p$ elastic scattering are resonance effects 816
HOFFMAN, C. M. (see Wehmann, A.) 929
HOFSTADTER, R. (see Safrata, R. S.) 667
HOMER, R. J. (see Davies, J. D.) 62
HOMMA, S. (see Bolon, G. C.) 926
HORTON, G. K. (see Brown, J. S.) 647
HOUGH, PAUL V. C. (see Crennell, David J.) 323
HSU, F. H. H. and C. S. WU. Correlation between decay lifetime and angular distribution of positron annihilation in the plastic scintillator Naton 889
HUANG, K., C. E. JONES, and V. L. TEPLITZ. Regge cut in proton-proton scattering 146
HUANG, S. (see Chandrasekhar, B. S.) 43
HÜBNER, R. (see Buschhorn, G.) 571
HUGHES, V. W. (see Theriot, E. D., Jr.) 767
HULTSCHIG, H. (see Albrecht, W.) 1014
HUNT, T. K. and J. E. MERCEREAU. Quantum phase correlation in small superconductors 551
HURD, C. M. Further evidence of Nagaoka's bound state for conduction electrons in

dilute alloys 1127
HUSSRI, A. (see Gaillard, J.-M.) 20
HUTCHINSON, W. G. (see Chapman, R. A.) 443; 822(E)
HWANG, CHESTER F. and D. A. HILL. New effect in dynamic polarization 110
HYMAN, L. G. (see Mott, J.) 355

ICHIKI, S. K. (see Hill, R. M.) 105
IGI, KEIJI and SATOSHI MATSUDA. New sum rules and singularities in the complex J plane 625; 822(E)
IGO, G. J. (see Palevsky, H.) 1200
IMRIE, D. (see Goitein, M.) 1016
INNOCENTI, P. G. (see Wehmann, A.) 929
IWASA, S. (see Anastassakis, E.) 227(E)
——— (see Kaplan, R.) 159

JAEGLE, P., G. MISSONI, and P. DHEZ. Study of the absorption of ultrasoft x rays by bismuth and lead using the orbit radiation of the Frascati synchrotron 887
JAMES, P. B. and H. D. D. WATSON. Quark decomposition of hadron scattering amplitudes 179
JAMES, R. P. (see Shockley, W.) 876
JANE, M. R. (see Gaillard, J.-M.) 20
JARVIS, JOHN, DIETOLF RAMM, and HORST MEYER. Density changes in solid H_2 119
JAVAN, A. (see Cordover, R. H.) 730; 1104(E)
JENSEN, D. A. (see Ehrlich, R. D.) 959
JENSEN, M. A., A. J. HEEGER, L. B. WELSH, and G. GLADSTONE. Evidence for a singlet ground state in the magnetic impurity problem 997
——— (see Heeger, A. J.) 488
JOHNSON, E. J. (see Dickey, D. H.) 599
JOHNSON, K., F. E. LOW, and H. SUURA. Radiative corrections to β decay and the quantum numbers of fields underlying the current algebra 1224
JOHNSON, P. B. (see Gutay, L. J.) 142
——— (see Yen, W. L.) 1091
JOHNSON, R. H. (see Wilson, B. G.) 675
JOHNSON, R. T. (see Abel, W. R.) 737
JOHNSTON, L. H. (see Flatté, Stanley M.) 366
JONES, C. E. (see Huang, K.) 146
JONES, K. W. (see Chasman, C.) 219
JONES, W. D. (see Alexeff, I.) 1109
JOOS, P. (see Asbury, J. G.) 65
JORDAN, C. L. (see Asbury, J. G.) 65
JORTNER, JOSHUA (see Bergman, Amalia) 593
JUHALLA, R. E. (see Urvater, E.) 1156
JURA, GEORGE (see Burton, James J.) 740; 938(E)

KABIR, P. K. (see Costa, G.) 429; 526(E)
KAGIWADA, HARRIET (see Kagiwada, Reynold) 74
KAGIWADA, REYNOLD, MOISÉS LEVY, ISADORE RUDNICK, HARRIET KAGIWADA, and KAZUMI MAKI. Ultrasonic attenuation in a pure type-II superconductor near H_{c2} 74
KALBFLEISCH, GEORGE R. (see Crennell, David J.) 86
——— (see Crennell, David J.) 323
——— (see Goldberg, Marvin) 680
KALMUS, P. I. P. (see Anderson, H. L.) 89; 276(E)
KALVIUS, G. M. (see Sprouse, G. D.) 1041
KANG, KYUNGSIK and DAVID J. LAND. S-wave $\pi\pi$ scattering and the K_1^0–K_2^0 mass difference 503
KAPLAN, D. E. (see Hill, R. M.) 105
KAPLAN, R., E. D. PALIK, R. F. WALLIS, S. IWASA, E. BURSTEIN, and Y. SAWADA. Infrared absorption by coupled collective cyclotron excitation–longitudinal-optic phonon modes in InSb 159
——— (see McCombe, B. D.) 748
KAST, J. W. (see Bernow, S.) 787
KAUFMANN, E. N. (see Bhattacherjee, S. K.) 223
KAZES, E. (see Fleming, Gordon N.) 764; 938(E)
KEACHIE, S. (see Welch, W. J.) 1068
KEDEM, D. and T. ROTHEM. Internal fields in nickel ferrite 165
KEHOE, B. (see Abrams, G. S.) 620
KELLY, G. M. (see Hammond, R. H.) 156
KELLY, T. M. (see Roellig, L. O.) 387
KENNEY, V. P. (see Biswas, N. N.) 273
——— (see Cason, N. M.) 880
KENT, J. J. (see Moore, C. Fred) 345
KEPLER, R. G. Photoionization of excitons in anthracene 951
KERN, W. (see Buschhorn, G.) 571
KESSLER, D., H. L. ANDERSON, M. S. DIXIT, H. J. EVANS, R. J. McKEE, C. K. HARGROVE, R. D. BARTON, E. P. HINCKS, and J. D. McANDREW. μ-atomic Lyman and Balmer series in Ti, TiO_2, and Mn 1179
——— (see Anderson, H. L.) 89; 276(E)
KESSLER, J. (see Hilgner, W.) 983
KEYWORTH, G. A. (see Wilhjelm, P.) 130
KHORANA, B. M. and B. S. CHANDRASEKHAR. ac Josephson effect in superfluid helium 230
KHURI, N. N. Possibility of an infinite sequence of Regge recurrences 1094
KIM, C. W. and MICHAEL RAM. Total muon-capture rate in He^3 from current commutation relations 327
KIM, DUK JOO (see Frankel, Richard B.) 1051
KIM, J. K. (see Firestone, A.) 176
KIM, S. M., A. T. STEWART, and J. P. CARBOTTE. Minimum energy of positrons in metals 385; 526(E)
KIRZ, JANOS (see Chung, Suh Urk) 100
KISSLINGER, L. S. Ambiguities in mass extrapolation via partially conserved axial-vector currents and the $K \to 2\pi$ decays 861
KITTS, EARLE L., JR. (see Wetsel, Grover C., Jr.) 841

KLARE, K. A. (see Anderson, H. L.) 89; 276(E)
KLEIN, P. R. (see Flatté, Stanley M.) 366
——— (see Yen, W. L.) 1091
KLEIN, STANLEY. Nonforward superconvergence relations 1074
KLEINERT, HAGEN. Decay rates of the decuplet resonances from $O(3,1) \otimes SU(3)$ dynamics. Definite SU(3) symmetry breaking 1027
——— (see Barut, A. O.) 754
KNAPP, G. S. (see Creveling, L.) 851
KNIGHT, K. M. (see Davies, J. D.) 62
KNIGHT, W. D. (see Hines, William A.) 341
——— (see Wright, Fulton, Jr.) 114
KNUTSON, J. W., JR. (see Bennett, W. R., Jr.) 688
KOBRAK, H. (see Gomez, R.) 1022
KOCHER, CARL A. and EUGENE D. COMMINS. Polarization correlation of photons emitted in an atomic cascade 575
KOEHLER, P. F. M., K. W. ROTHE, and E. H. THORNDIKE. Neutron-proton bremsstrahlung at 197 MeV 933
KOEHLER, T. R. New approach to lattice dynamics applied to solid He^3 at 0°K 654
KOHLER, M. (see Bellemans, A.) 1192
KONINGSTEIN, J. A. and O. SONNICH MORTENSEN. Polarized electronic Raman effect of trivalent europium in yttrium vanadate 831
KOOPMAN, D. W. and D. A. TIDMAN. Possible observations of collisionless electrostatic shocks in laser-produced plasmas 533
KOPELMAN, J. B. (see Urvater, E.) 1156
KOTELCHUCK, D., E. R. GOZA, C. R. SULLIVAN, and C. E. ROOS. Determination of the Σ^+ magnetic moment using the reaction $K^- + p \to \Sigma^+ + \pi^-$ at 1.15 GeV/c 1166
——— (see Sullivan, C. R.) 1163
KÖTZ, U. (see Buschhorn, G.) 571
KOUVEL, J. S. and D. S. RODBELL. Magnetic equation of state for CrO_2 and nickel near their Curie point 215
KRAICHNAN, ROBERT H. Condensate turbulence in a weakly coupled boson gas 202
KRIENEN, F. (see Gaillard, J.-M.) 20
KRIMIGIS, S. M., J. A. VAN ALLEN, and T. P. ARMSTRONG. Simultaneous observations of solar protons inside and outside the magnetosphere 1204
KRISCH, A. D. (see Ratner, L. G.) 1218
KROPAC, W. (see Derrick, M.) 266
——— (see Mott, J.) 355
KUMAR, ARVIND and JOGESH C. PATI. SU(3) breaking and current algebra in nonleptonic hyperon decays 1230
KUNZ, PAUL F. (see Cronin, James W.) 25; 152(E)
KYCIA, T. F. (see Abrams, R. J.) 1209
KYKER, G. C., JR. (see Wilhjelm, P.) 130
KYSER, D. S. (see Rehn, Victor) 848

LACH, J. (see Firestone, A.) 176
LADELL, J. (see Abowitz, G.) 543
LAI, KWAN WU (see Crennell, David J.) 86
——— (see Crennell, David J.) 323
LAMPERT, MURRAY A. and RONALD B. SCHILLING. Space-charge-limited current transient including diffusion 493
LAMSA, J. W. (see Cason, N. M.) 880
LAND, DAVID J. (see Kang, Kyungsik) 503
LANDE, ALEXANDER. Variational calculations in light nuclei with realistic nucleon-nucleon interactions: Ground-state deformations 496
LANDER, RICHARD L. (see Carmony, D. Duane) 615
LANGENBERG, D. N. (see Parker, W. H.) 287
LARSEN, D. M. (see Dickey, D. H.) 599
LAX, BENJAMIN, WLODZIMIERZ ZAWADZKI, and MARGARET H. WEILER. Nonlinear magneto-optics of electrons and holes in semiconductors and semimetals 462
LEA, ROBERT M. (see Crennell, David J.) 323
LEADER, ELLIOT (see Fox, G. C.) 628; 766(E)
LEAKE, J. A. (see Daniels, W. B.) 548
LeBLANC, M. A. R., D. J. GRIFFITHS, and B. C. BELANGER. Diamagnetic and paramagnetic surface currents induced by temperature changes in type-II superconductors in static magnetic fields 844
LEE, B. W. (see Abbud, F.) 980
——— (see Bardeen, W. A.) 1170
——— (see Bronzan, J. B.) 32
LEE, C. H., R. K. CHANG, and N. BLOEMBERGEN. Nonlinear electroreflectance in silicon and silver 167
LEE, HUAN. Nonexistence of self-conjugate particles with half-integral isospin 1098
LEE, T. D., STEVEN WEINBERG, and BRUNO ZUMINO. Algebra of fields 1029
LEIGA, A. G. (see Drews, R. E.) 1194
LEITNER, JACK (see Goldberg, Marvin) 680
LEMONICK, A. (see Ford, W. T.) 1214
LEONTIĆ, B. A. (see Abrams, R. J.) 1209
LEVELT SENGERS, J. M. H. (see Green, M. S.) 1113
LEVINE, MENAHEM (see Bergman, Amalia) 593
LEVY, MOISÉS (see Kagiwada, Reynold) 74
LEWIS, H. R., JR. Classical and quantum systems with time-dependent harmonic-oscillator-type Hamiltonians 510; 636(E)
LEWIS, R. (see Bolon, G. C.) 926
LI, K. K. (see Abrams, R. J.) 1209
LIEB, ELLIOTT H. Exact solution of the problem of the entropy of two-dimensional ice 692
———. Exact solution of the F model of an antiferroelectric 1046
LIN, M. T. (see Ratner, L. G.) 1218
LIPKIN, HARRY J. and FLORIAN SCHECK. Λ and Σ^0 production in peripheral reactions 347
LIPMAN, N. H. (see Gaillard, J.-M.) 20
LITT, J. (see Boyarski, A.) 363
LITTIG, C. E. (see Rand, R. E.) 469

LITTLE, W. A. (see Safrata, R. S.) 667
LOBAR, W. (see Bolon, G. C.) 926
LOEFFLER, F. J. (see Gutay, L. J.) 142
LOGAN, R. K., J. BEAUPRE, and L. SERTORIO. π-p charge exchange polarization and the possibility of a second ρ meson 259
LOGOTHETIS, E. M. and P. L. HARTMAN. Three-photon photoelectric effect in gold 581
LOKEN, J. (see Derrick, M.) 266
——— (see Mott, J.) 355
LONGO, MICHAEL J. (see Young, Kenneth K.) 806
LORET, M. (see Ballini, R.) 408
LOSEE, D. L. and R. O. SIMMONS. Vacancy concentration measurements and many-body force effects in krypton crystals 451
LOUDON, R. (see Fleury, P. A.) 658
LOVE, JOHN C. (see Czjzek, Gordon) 529
LOW, F. E. (see Bronzan, J. B.) 32
——— (see Das, T.) 759
——— (see Johnson, K.) 1224
LOWDE, R. D. and C. G. WINDSOR. Generalized susceptibility of nickel 1136
LUCKEY, D. (see Bolon, G. C.) 926
LUNDQUIST, D. (see Prepost, R.) 82
LUO, H. L. (see Creveling, L.) 851
LUTZ, H. O. (see Moak, C. D.) 41
LYNCH, R. T. (see Dean, P. J.) 122

MACAGNO, E. R. (see Bernow, S.) 787
MacDONALD, W. (see Mekjian, A.) 706
MacDOWELL, S. W. Test of time-reversal invariance in $K_{\mu 1 \gamma}$ decay 227(E)
MACK, DICK A. (see Wiegand, Clyde E.) 685
MADELUNG, O. (see Eckelt, P.) 656
MAGDE, DOUGLAS and HERBERT MAHR. Study in ammonium dihydrogen phosphate of spontaneous parametric interaction tunable from 400 to 16 000 Å 905
MAHAN, G. D. Excitons in metals 448
MAHR, HERBERT (see Magde, Douglas) 905
MAIANI, L. (see Gatto, R.) 97
MAITA, J. P. (see Bucher, E.) 1125
MAKI, KAZUMI. Anisotropy in tunneling density of states in pure type-II superconductors 835
——— (see Caroli, Christiane) 698
——— (see Kagiwada, Reynold) 74
MALANIFY, J. J. (see Morton, B. J.) 1007
MANI, H. S., YUKIO TOMOZAWA, and YORK-PENG YAO. Model for low-energy pion-nucleon scattering 1084
MANNING, G. (see Gaillard, J.-M.) 20
MARCUS, S. M. (see Scalapino, D. J.) 459
MARSHALL, THOMAS C. (see Anastassiades, A. J.) 1117
MARSHALL LIBBY, L. (see Urvater, E.) 1156
MARTEL, P. (see Cowley, R. A.) 162
MARTI, KURT. Mass-spectrometric detection of cosmic-ray-produced Kr^{81} in meteorites and the possibility of Kr-Kr dating 264; 636(E)
MARTIN, DOUGLAS L. Nuclear specific heat of gold-silver alloys 839
MARTIN, F. (see Barna, A.) 360; 526(E)
MARTIN, P. W. (see Reimann, M. A.) 246
MARTIN, R. L. (see Anderson, H. L.) 89; 276(E)
MATHEWS, T. (see Wilson, B. G.) 675
MATHUR, B. S. (see Happer, W.) 577
——— (see Happer, W.) 727
MATHUR, V. S. (see Das, T.) 759
——— (see Das, T.) 761
MATSUDA, SATOSHI (see Igi, Keiji) 625; 822(E)
MATTHIAS, B. T., W. H. ZACHARIASEN, G. W. WEBB, and J. J. ENGELHARDT. Melting-point anomalies 781
MAY, E. C. (see Cohen, B. L.) 962
McADAMS, H. H. and G. K. WALTERS. Dynamic polarization of liquid helium-three 436
McANDREW, J. D. (see Kessler, D.) 1179
McCALL, S. L. and E. L. HAHN. Self-induced transparency by pulsed coherent light 908
McCARTHY, J. S. (see Safrata, R. S.) 667
McCOMBE, B. D., S. G. BISHOP, and R. KAPLAN. Combined resonance and electron g values in InSb 748
McGLINN, W. D. (see Bose, S. K.) 873
McGRATH, ROBERT L., S. W. COSPER, and JOSEPH CERNY. Isospin-forbidden decay of the 0^+, $T=2$ state at 15.43 MeV in ^{24}Mg 243
McILWAIN, R. L. (see Gutay, L. J.) 142
McINTOSH, A. I. (see Crompton, R. W.) 527
McINTURFF, A. D. (see Sullivan, C. R.) 1163
McKEE, R. J. (see Kessler, D.) 1179
MEHTA, C. L. Diagonal coherent-state representation of quantum operators 752
MEIER-EWERT, K. (see Bethge, K.) 1010
MEKJIAN, A. and W. MacDONALD. Fine-structure analysis of analog resonances in K^{41} 706
MELISSINOS, A. C. (see Berlinghieri, J.) 1087
MENYHÁRD, N. (see Ferrell, R. A.) 891
MERCEREAU, J. E. (see Hunt, T. K.) 551
MESHKOV, S. and G. B. YODH. SU(3) reaction inequalities at high energies 474
METZGER, F. R. Coulomb fragmentation of molecules, observed via the resonant scattering of gamma rays 434
MEYER, HORST (see Jarvis, John) 119
MEYER, JAMES W. and H. SUURA. Sum rules based on causality 479
MICHAEL, D. N. (see Abrams, R. J.) 1209
MIEHER, R. L. (see Dakss, M. L.) 1056
MIGNERON, J. H. R. and K. MORIARTY. Nucleon-antinucleon charge-exchange scattering using U(6, 6) and the absorption model 978
MIHALISIN, T. W. and R. D. PARKS. Anisotropic spin polarization in ferromagnetic nickel 210; 331(E)

MILLER, BARRY I. and ALY H. DAYEM. Relaxation and recombination times of quasiparticles in superconducting Al thin films 1000
MILLER, D. H. (see Gutay, L. J.) 142
MILLER, DONALD H. (see Chung, Suh Urk) 100
MILLS, ALLEN P. and STEPHAN BERKO. Search for C nonconservation in electron-positron annihilation 420
MILLS, ROGER E. Exact relation for magnon theories of magnetism and its consequences in calculations of magnon specific heats 1189
MILSTEIN, FREDERICK and LAWRENCE BAYLOR ROBINSON. Exchange integral in rare-earth metals 308
MINAMI, K. (see Takeda, S.) 829
MINTEN, A. (see Boyarski, A.) 363
MISCHKE, R. E., A. ABASHIAN, R. J. ABRAMS, D. W. CARPENTER, B. M. K. NEFKENS, J. H. SMITH, R. C. THATCHER, L. J. VERHEY, and A. WATTENBERG. Determination of the phase of the CP-nonconservation parameter η_{+-} in neutral K decay 138; 383(E)
MISSONI, G. (see Jaegle, P.) 887
MISTRETTA, C. (see Goitein, M.) 1016
MISTRY, N. (see Eisenhandler, E.) 425
MITCHELL, O. M. MRACEK and G. H. YATES. Amplitude dependence of ultrasonic attenuation in single-crystal copper 603
MITRA, S. S., C. POSTMUS, and J. R. FERRARO. Pressure dependence of long-wavelength optical phonons in ionic crystals 455
MOAK, C. D., H. O. LUTZ, L. B. BRIDWELL, L. C. NORTHCLIFFE, and S. DATZ. Evidence of shell effects and the approach to equilibrium in the charge-state distributions for 15-160 MeV ^{79}Br and ^{127}I ions in carbon 41
MOCHEL, J. M. (see Parks, R. D.) 47
MOFFAT, J. W. (see Gajdicar, T. J.) 1153
MOLDAUER, P. A. Statistical theory of intermediate resonances 249
MOLINE, A. (see Gomez, R.) 1022
MOLL, J. L. (see Eden, R. C.) 597
MOORADIAN, A. (see Wright, G. B.) 608
MOORE, C. FRED, S. A. A. ZAIDI, and J. J. KENT. Single-particle states built on the second 0^+ state in ^{90}Zr 345
MOORE, M. S. (see Bowman, C. D.) 15
MOORE, T. W. Magnetic breakdown of cyclotron-resonance orbits in gallium 310
MORGADO, R. (see Flatté, Stanley M.) 366
MORIARTY, K. (see Migneron, J. H. R.) 978
MORPURGO, G. Quark-model calculation of the Λ to Σ ratio in the isospin-1 s-wave $\bar{K}N$ reaction 936
MORRIS, GLEN J. Ultrahigh-frequency intensity-modulated light from a plasma 734
MORT, J. Acoustoelectric current saturation in trigonal selenium 540
MORTENSEN, O. SONNICH (see Koningstein, J. A.) 831
MORTON, B. J., E. E. GROSS, J. J. MALANIFY, and A. ZUCKER. Two-proton final-state interactions in the reactions D(^{3}He, t)2p and ^{3}He(d, t)2p at a center-of-mass energy of 21 MeV 1007
MOSHER, DAVID (see Chen, Francis F.) 639
MOSTEK, P. (see Eisenhandler, E.) 425
MOTT, J., R. AMMAR, R. E. P. DAVIS, W. KROPAC, F. SCHWEINGRUBER, M. DERRICK, T. FIELDS, L. G. HYMAN, J. LOKEN, and J. SIMPSON. Meson+hyperon final states in K^-p interactions at 4.1 and 5.5 GeV/c 355
——— (see Derrick, M.) 266
MUGA, M. L., C. R. RICE, and W. A. SEDLACEK. Ternary fission of heavy nuclei 404
MULLINS, J. (see Gomez, R.) 1022
MURRAY, JOSEPH J. (see Flatté, Stanley M.) 366
MUSTACHI, A. (see Atzmony, U.) 1061
MUZINICH, I. J. Superconvergence relations in the presence of Regge cuts 381
——— (see de Lany, Vincent M.) 148

NAUENBERG, U. (see Ford, W. T.) 1214
NE'EMAN, YUVAL and JOHN D. REICHERT. Charge exchange and associated production in the algebra of factorized residues 1226
NEFKENS, B. M. K. (see Mischke, R. E.) 138; 383(E)
NEIDIGH, R. V. (see Alexeff, I.) 1109
NEIGHBOR, J. E. (see Newbower, R. S.) 538
NETHERCOT, A. H., JR. (see von Gutfeld, R. J.) 855
NEURINGER, L. J. (see Beckman, O.) 773
——— (see Shapira, Y.) 1133
NEWBOWER, R. S. and J. E. NEIGHBOR. Anomalous resistance of pure gallium near 1.7°K 538
NIEH, H. T. (see Bardeen, W. A.) 1170
NIETO, MICHAEL MARTIN. Angular momentum uncertainty relation and the three-dimensional oscillator in the coherent states 182
——— (see Carruthers, P.) 297
NISSIM-SABAT, C. (see Ehrlich, R. D.) 959
NOLEN, J. A., JR., J. P. SCHIFFER, N. WILLIAMS, and D. von EHRENSTEIN. Coulomb displacement energies of Ca-Sc isobaric pairs 1140
NORMAN, SCOTT L. and DAVID H. DOUGLASS, JR. New measurements of the electromagnetic absorption spectrum of superconducting lead 339
NORTHBY, J. A. and T. M. SANDERS, JR. Photoejection of electrons from bubble states in liquid helium 1184
NORTHCLIFFE, L. C. (see Moak, C. D.) 41
NORTON, RICHARD E. (see Abers, Ernest S.) 676
NOVICK, R. (see Dworetsky, S.) 939
NURMIA, MATTI J. (see Ghiorso, Albert) 401
NUSSBAUM, M. (see Feldman, M.) 868

OBSENSHAIN, FELIX E. (see Czjzek, Gordon) 529
O'DELL, A. W. (see Davies, J. D.) 62
OEHME, REINHARD. Fixed poles in the complex angular momentum plane 1222
OERTEL, G. K. (see Cooper, J.) 985
OFER, S. (see Atzmony, U.) 1061
OH, B. Y. (see Walker, W. D.) 630
OHLSEN, G. G. (see Bernstein, E. M.) 966
O'KEEFE, T. M. (see Cohen, B. L.) 962
OKUBO, SUSUMU. Reggeized tadpole model and electromagnetic mass differences 256; 383(E)
——— (see Das, T.) 761
O'LEARY, G. P. and R. G. WHEELER. Far-infrared measurement of long-range order in a displacive phase transition 1054
OLSSON, M. (see Barger, V.) 294
OMIDVAR, KAZEM. Vainshtein method applied to electron impact excitation and ionization of atoms 153
ORTH, C. (see Gomez, R.) 1022
OSBORNE, L. S. (see Bolon, G. C.) 926
OSGOOD, E. B. and J. M. GOODKIND. Nuclear cooling applied to measurements in He^3 894
OSHMAN, M. K. (see Harris, S. E.) 732

PAGELS, HEINZ. Sum rules for photon-hadron scattering 316
PAGNAMENTA, ANTONIO (see Harrington, David R.) 1147
PAIS, A. Low-energy theorems and internal symmetry 17
PALATHINGAL, J. C. Method of measuring the helicity of the antineutrino 473
PALEVSKY, H., J. L. FRIEDES, R. J. SUTTER, G. W. BENNETT, G. J. IGO, W. D. SIMPSON, G. C. PHILLIPS, D. M. CORLEY, N. S. WALL, R. L. STEARNS, and B. GOTTSCHALK. Elastic scattering of 1 BeV protons from hydrogen, helium carbon, and oxygen nuclei 1200
PALIK, E. D. (see Kaplan, R.) 159
PALMAS, G. (see Bergamini, P. G.) 468
PAN, YU-LI (see Bell, Robert B.) 921
PANIZZA, E. (see Regensburger, Paul J.) 113
PAPALIOLIOS, COSTAS. Experimental test of a hidden-variable quantum theory 622
PARHAM, A. G. (see Gaillard, J.-M.) 20
PARKER, W. H., B. N. TAYLOR, and D. N. LANGENBERG. Measurement of $2e/h$ using the ac Josephson effect and its implications for quantum electrodynamics 287
PARKINSON, MICHAEL. B meson and the $\rho \rightarrow \pi + \omega$ decay 270
PARKS, R. D. and R. P. GROFF. Evidence for thermodynamic fluctuations in a superconductor 342
———, F. C. ZUMSTEG, and J. M. MOCHEL. Heat flow in a superconductor in the vortex state 47
——— (see Mihalisin, T. W.) 210; 331(E)
PARTRIDGE, R. B. and DAVID T. WILKINSON. Isotropy and homogeneity of the universe from measurements of the cosmic microwave background 557
PASSERIEUX, J. P. (see Ballini, R.) 408
PASTINE, D. JOHN. P, V, E, T equation of state of metallic sodium in the classical region of temperature 1187
PATEL, C. K. N. (see Slusher, R. E.) 77; 227(E)
PATEL, J. R. and P. E. FREELAND. Change of dislocation velocity with Fermi level in silicon 833
——— (see Frisch, H. L.) 784
PATERSON, J. M. (see Goitein, M.) 1016
PATI, JOGESH C. (see Kumar, Arvind) 1230
PATIL, SHARASHCHANDRA H. (see Cornwall, John M.) 757
PATRICK, LYLE. Isoelectronic donors and acceptors 45
PATTERSON, DAVID A. and ROBERT G. FULLER. F band in x- and electron-irradiated CaF_2 1123
PAYNE, B. T. (see Gaillard, J.-M.) 20
PERES, ASHER. Singular string of magnetic monopoles 50
PERKINS, F. (see Hendel, H. W.) 438
PERL, M. L. (see Barna, A.) 360; 526(E)
PETERS, M. (see Flatté, Stanley M.) 366
PETERS, R. E. (see Yen, W. L.) 1091
PETERSON, D. T. (see Decker, W. R.) 899
PETICOLAS, W. L., G. I. A. STEGEMAN, and B. P. STOICHEFF. Intensity ratio of Rayleigh to Brillouin scattering at the glass transition in polyethyl methacrylate 1130
——— (see Dowley, M. W.) 531
PHILLIPS, G. C. (see Palevsky, H.) 1200
PHILLIPS, T. G., R. L. TOWNSEND, JR., and R. L. WHITE. Piezomagnetism of CoF_2 and α-F_2O_3 from electron-paramagnetic-resonance pressure experiments 646
PIANTELLI, F. (see Bergamini, P. G.) 468
PIROUÉ, P. A. (see Ford, W. T.) 1214
PLATZMAN, P. M. and P. A. WOLFF. Spin-wave excitation in nonferromagnetic metals 280
POIRIER, J. A. (see Biswas, N. N.) 273
——— (see Cason, N. M.) 880
POLITZER, P. A. (see Hendel, H. W.) 438
PORTO, S. P. S. (see Fleury, P. A.) 658
POST, R. F. Confinement of charged particles by multiple-mirror systems 232
POSTMUS, C. (see Mitra, S. S.) 455
POWERS, R. J. (see Ehrlich, R. D.) 959
PRAKASH, HARI. Nonlinear polarization of dielectric 458
PREPARATA, G. (see Gatto, R.) 97
PREPOST, R., D. LUNDQUIST, and D. QUINN. Eta photoproduction in the region from threshold to 940 MeV 82
PRICE, LeROY R. and FRANK S. CRAW-

FORD, JR. Search for decay modes $\eta \to \pi^+ + \pi^- + \pi^0 + \gamma$ and $\eta \to \pi^+ + \pi^- + \gamma + \gamma$ 1207
PULLEN, D. J. (see Rosner, B.) 13

QUINN, D. (see Prepost, R.) 82

RAINWATER, J. (see Bernow, S.) 787
RAKAVY, G. (see Barkat, Z.) 379
RAM, MICHAEL. Composite models of hadrons and high energy scattering 70(E)
—— (see Kim, C. W.) 327
RAMACHANDRAN, R. (see Desai, Bipin R.) 565
RAMAN, K. Sum-rules for P-wave pion-nucleon scattering lengths from current algebras 432(E)
RAMM, DIETOLF (see Jarvis, John) 119
RAND, R. E., R. F. FROSCH, C. E. LITTIG, and M. R. YEARIAN. Electron scattering from the deuteron at $\theta = 180°$ 469
RANK, D. H. (see Cho, C. W.) 107
RATCLIFFE, T. (see Gaillard, J.-M.) 20
RATNER, L. G., K. W. EDWARDS, C. W. AKERLOF, D. G. CRABB, J. L. DAY, A. D. KRISCH, and M. T. LIN. Production of pions, kaons, and antiprotons in the center-of-mass system in high-energy proton-proton collisions 1218
RAZMI, M. S. K. and Y. UEDA. Superconvergent sum rules for photoproduction 719; 938(E)
REE, FRANCIS H. and DWAYNE A. CHESNUT. Phase transition of hard square lattice with second-neighbor exclusion 5
REGENSBURGER, PAUL J. and E. PANIZZA. Two-photon absorption spectrum of CdS 113
REHN, VICTOR and D. S. KYSER. Transverse electroreflectance 848
REICHERT, JOHN D. (see Ne'eman, Yuval) 1226
REIMANN, M. A., P. W. MARTIN, and E. W. VOGT. Structure-dependent asymmetry in sequential breakup from the reaction $Li^6(He^3, p\alpha)He^4$ 246
REITHLER, H. (see Gaillard, J.-M.) 20
RENTZEPIS, P. M. (see Freund, Isaac) 393
REPPY, J. D. (see Smith, E.) 637
RHO, MANNQUE. Migdal's theory of nuclear structure and partial muon capture rates in O^{16} 671; 1104(E)
RHODE, J. I. (see Urvater, E.) 1156
RIAZUDDIN (see Fayyazuddin) 715
RICE, C. R. (see Muga, M. L.) 404
RICHERT, S. (see Feldman, M.) 868
RICHTER, B. (see Boyarski, A.) 363
RIGATO, M. (see Bergamini, P. G.) 468
RILEY, K. F. (see Davies, J. D.) 62
RISK, WINTHROP S. (see Cronin, James W.) 25; 152(E)
RISTINEN, R. A. (see Chasman, C.) 219
ROBERSON, N. R. (see Wilhjelm, P.) 130
ROBERTS, P. J. Theory of photoemission 823
ROBINSON, LAWRENCE BAYLOR (see Milstein, Frederick) 308
ROCKMORE, RONALD and TSU YAO. K_1^0-K_2^0 mass difference and low-energy π-π dynamics 501
RODBELL, D. S. (see Kouvel, J. S.) 215
ROELLIG, L. O. and T. M. KELLY. Cavity formation in helium 387
ROHDE, M. (see Asbury, J. G.) 65
ROLNICK, WILLIAM B. Supermultiplet structure resulting from the existence of Q_K 225
ROOS, C. E. (see Kotelchuck, D.) 1166
—— (see Sullivan, C. R.) 1163
—— (see Sullivan, D. B.) 212
ROSNER, B. and D. J. PULLEN. $\frac{3}{2}^-$ ground state of V^{47} 13
ROTHE, K. W. (see Koehler, P. F. M.) 933
ROTHEM, T. (see Kedem, D.) 165
ROTHWELL, P. (see Chase, R. C.) 710
ROWBERG, R. (see Wong, A. Y.) 390
ROWE, P. A. (see Blatt, F. J.) 395
RUBINSTEIN, H. R. and G. VENEZIANO. Application of current algebra to pion emission 411
—— (see Elitzur, M.) 417
RUDNICK, ISADORE (see Kagiwada, Reynold) 74
RUNGE, K. (see Bernow, S.) 787
RUST, D. (see Eisenhandler, E.) 425

SABISKY, E. S. (see Anderson, C. H.) 236
SACK, N. (see Barkat, Z.) 379
SAFRATA, R. S., J. S. McCARTHY, W. A. LITTLE, M. R. YEARIAN, and R. HOFSTADTER. Scattering of fast electrons by oriented Ho^{165} nuclei 667
SAHNI, R. J. (see Yen, W. L.) 1091
SAKITA, BUNJI and KAMESHWAR C. WALI. Sum rules for baryon resonance widths 29
SALANECK, W., Y. SAWADA, and E. BURSTEIN. Magneto-quantum-electric fields in bismuth 779
—— (see Sawada, Y.) 776
SALTER, D. C. (see Davies, J. D.) 62
SALWEN, HAROLD (see Grosch, Chester E.) 946
SALZMAN, W. R. (see Baur, M. E.) 590
SAMPLE, J. T. (see Chasman, C.) 219
SANDERS, T. M., JR. (see Northby, J. A.) 1184
SANDWEISS, J. (see Firestone, A.) 176
SARTORIS, G. and L. ZAMICK. Hole states in nuclei—^{41}Ca and ^{47}Ca 292
SAWADA, Y., E. BURSTEIN, W. SALANECK, and L. TESTARDI. Magneto-quantum-electric effect in solid-state plasmas 776
—— (see Kaplan, R.) 159
—— (see Salaneck, W.) 779
SAWYER, R. F. O(4) and forward production processes at high energies 1209
SAYER, G. A. (see Devlin, T. J.) 54
SCALAPINO, D. J. and S. M. MARCUS. Theory of inelastic electron-molecule interac-

tions in tunnel junctions 459
SCARR, J. MICHAEL (see Crennell, David J.) 86
——— (see Crennell, David J.) 323
SCHECK, FLORIAN (see Lipkin, Harry J.) 347
SCHENTER, R. E. Extreme damping of single-particle wave functions in the nuclear interior 465
SCHIFFER, J. P. (see Nolen, J. A., Jr.) 1140
SCHILLING, RONALD B. (see Lampert, Murray A.) 493
SCHINKE, DAVID P. (see Culvahouse, J. W.) 117
SCHMIDT, H. (see Ferrell, R. A.) 891
SCHMÜSER, P. (see Buschhorn, G.) 571
SCHROEDER, P. A. (see Blatt, F. J.) 395
SCHULTZ, SHELDON and GERALD DUNIFER. Observation of spin waves in sodium and potassium 283
SCHUMACHER, D. P. (see Cooper, B. R.) 744
SCHUMANN, THOMAS G. (see Crennell, David J.) 86
——— (see Crennell, David J.) 323
SCHWABL, F. (see Ferrell, R. A.) 891
SCHWARTZ, BRIAN B. (see Frankel, R. B.) 1051
SCHWARTZ, J. J. Two-body spectrum in the $1f_{7/2}$ shell 174
SCHWEINGRUBER, F. (see Derrick, M.) 266
——— (see Mott, J.) 355
SCHWEITZER, DONALD G. and M. GARBER. Experimental tests of the critical-state model for hysteretic superconductors 206
SCHWINGER, JULIAN. Mass empirics 797
———. Partial symmetry 923
SCHWITTERS, R. (see Bolon, G. C.) 926
SCIAMA, D. W. Peculiar velocity of the sun and the cosmic microwave background 1065
SCOULER, W. J. Temperature-modulated reflectance of gold from 2 to 10 eV 445
SECHI-ZORN, B. (see Abrams, G. S.) 620
SEDLACEK, W. A. (see Muga, M. L.) 404
SEEGER, V. H. (see Bland, R. W.) 1077
SELLIN, D. L. (see Wilhjelm, P.) 130
SERTORIO, L. (see Logan, R. K.) 259
SEVERIENS, J. C. (see Baltay, C.) 93
SHAPIRA, Y. and L. J. NEURINGER. Experimental verification of the Fermi-Dirac distribution of electrons in gallium 1133
SHARMA, RAMESH D. Autoionization in anthracene crystal 1139
SHAW, GRAHAM. Sum rules for pion-hyperon scattering 1025
SHAW, M. L. and R. E. STICKNEY. Comment on the paper "Photoelectric ion emission from cesiated surfaces" 824
SHAY, J. L., W. E. SPICER, and FRANK HERMAN. Photoemission study of the electronic structure of CdTe 649
SHEPARD, P. (see Devlin, T. J.) 54
SHEPHARD, W. D. (see Biswas, N. N.) 273
——— (see Cason, N. M.) 880
SHERBROOK, M. V. (see Anderson, H. L.) 89; 276(E)
SHERMAN, N. K. (see Anderson, H. L.) 89; 276(E)
SHERWOOD, A. C. (see Gaillard, J.-M.) 20
SHERWOOD, T. R. (see Dowd, J. P.) 414
SHINDO, Y. (see Ueda, S.) 453
SHIRANE, G. (see Daniels, W. B.) 548
SHIRLEY, D. A. (see Templeton, J. E.) 240
SHOCKLEY, W. and R. P. JAMES. "Try simplest cases" discovery of "hidden momentum" forces on "magnetic currents" 876
SIEMENS, PHILIP J. and H. A. BETHE. Shape of heavy nuclei 704
SIGNELL, PETER and J. W. DURSO. Nucleon form factors and universal vector coupling 185
SIKKELAND, TORBJORN (see Ghiorso, Albert) 401
SILVERMAN, A. (see Eisenhandler, E.) 425
SILVERSTEIN, S. D. and C. B. DUKE. Green's-function derivation of the Low equation for the scattering amplitude 695; 885(E)
SIMMONS, R. O. (see Losee, D. L.) 451
SIMON, R. E. (see Williams, B. F.) 485
SIMON, W. G. (see Bernstein, E. M.) 966
SIMPSON, F. B. (see Bowman, C. D.) 15
SIMPSON, J. (see Mott, J.) 355
SIMPSON, W. D. (see Palevsky, H.) 1200
SINCLAIR, C. (see Eisenhandler, E.) 425
SINGH, VIRENDRA. Fubini sum rule and analyticity in angular momentum plane 36; 300(E)
SINSKY, J. and J. WEBER. New source for dynamical gravitational fields 795
SKALSKI, S. (see Gegenwarth, R. E.) 9
SKILLICORN, IAN O. (see Crennell, David J.) 86
——— (see Crennell, David J.) 323
——— (see Goldberg, Marvin) 680
SKRONN, H. J. (see Buschhorn, G.) 571
SLUSHER, R. E., C. K. N. PATEL, and P. A. FLEURY. Inelastic light scattering from Landau-level electrons in semiconductors 77; 227(E)
SMITH, A. J. S. (see Asbury, J. G.) 65
SMITH, E., R. WALTON, H. V. BOHM, and J. D. REPPY. Density of rotating He II 637
SMITH, EARL W. Influence of electron correlations on a plasma-broadened Lyman-alpha line 990
SMITH, J. H. (see Mischke, R. E.) 138; 383(E)
SMITH, P. W. (see Fox, A. G.) 826
SMITH, W. W. (see Dworetsky, S.) 939
SOLOMON, J. (see Devlin, T. J.) 54
SPENCER, H. J. and S. DONIACH. Low-temperature anomaly of electron-spin resonance in dilute alloys 994
SPICER, W. E. (see Eden, R. C.) 597
——— (see Shay, J. L.) 649
SPROUSE, G. D., G. M. KALVIUS, and S. S. HANNA. Mössbauer effect by recoil implantation through vacuum 1041
STAFFORD, G. H. (see Davies, J. D.) 62
STAIRS, D. G. (see Wehmann, A.) 929
STARKOVICH, V. S. (see Bernstein, E. M.) 966
STEARNS, R. L. (see Palevsky, H.) 1200

STEGEMAN, G. I. A. (see Peticolas, W. L.) 1130
STERN, FRANK. Polarizability of a two-dimensional electron gas 546
STEVENSON, R. W. H. (see Cowley, R. A.) 162
STEWART, A. T. (see Kim, S. M.) 385; 526(E)
STEYERT, W. A. (see Daybell, M. D.) 398; 574(E)
STICKNEY, R. E. (see Shaw, M. L.) 824
STOCKER, H. J. Total negative photoconductance in solids and possibility of a new type of instability 1197
STODOLSKY, L. Hadronlike behavior of γ, ν-nuclear cross sections 135
———. Understanding "kinematic effects" 973
STOICHEFF, B. P. (see Peticolas, W. L.) 1130
STOKES, RICHARD H. and P. G. YOUNG. New isotope of helium: ^{7}He 611
STOWELL, W. R. (see Abeles, B.) 902
STRAND, RICHARD C. (see Crennell, David J.) 323
STUBBINS, W. F. (see Bowman, C. D.) 15
SUCHER, JOSEPH and CHING-HUNG WOO. Extrapolation problem in current-algebra calculations of the π-π scattering lengths 723
SUHL, H. Remarks on the recent Letter "Observation of Nagaoka's bound state for conduction electrons in dilute magnetic alloys" 743
SULLIVAN, C. R., A. D. McINTURFF, D. KOTELCHUCK, and C. E. ROOS. Measurement of the Σ^+ magnetic moment using the reaction $\gamma+p\rightarrow\Sigma^++K^0$ near threshold 1163
——— (see Kotelchuck, D.) 1166
SULLIVAN, D. B. and C. E. ROOS. Energy-gap measurements in type-II superconductors by a new method 212
SUTTER, R. J. (see Palevsky, H.) 1200
SUURA, H. (see Johnson, K.) 1224
——— (see Meyer, James W.) 479
SVENNE, J. P. (see Bassichis, W. H.) 80
SVENSSON, E. C. and B. N. BROCKHOUSE. In-band modes of vibration of a copper-3 at.% gold alloy 858
SWIFT, ARTHUR R. Relativistic model of a daughter Regge trajectory 813
SZÉPFALUSY, P. (see Ferrell, R. A.) 891

TAFT, H. D. (see Firestone, A.) 176
TAKEDA, S., K. MINAMI, and T. UNO. Diffusion of a weakly ionized plasma in a metal chamber immersed in a magnetic field 829
TALMAN, R. (see Eisenhandler, E.) 425
TAN, T. H. (see Barna, A.) 360; 526(E)
TAPPER, R. J. (see Davies, J. D.) 62
TATSUZAKI, I. (see Ueda, S.) 453
TAUTFEST, G. W. (see Yen, W. L.) 1091
TAYLOR, B. N. (see Parker, W. H.) 287
TAYLOR, J. G. Nonclassical theory of magnetic monopoles 713
TAYLOR, R. (see Boyarski, A.) 363
TELEGDI, V. L. (see Ehrlich, R. D.) 959
TEMPLETON, J. E. and D. A. SHIRLEY. Resonant destruction of nuclear orientation in ferromagnets 240
TEPLITZ, V. L. (see de Lany, Vincent M.) 148
——— (see Huang, K.) 146
TESTARDI, L. (see Sawada, Y.) 776
THATCHER, R. C. (see Mischke, R. E.) 138; 383(E)
THERIOT, E. D., JR., R. H. BEERS, and V. W. HUGHES. Precision redetermination of the hyperfine structure interval of positronium 767
THOMAS, D. G. (see Dean, P. J.) 122
THOMAS, G. E. (see Bollinger, L. M.) 1143
THORNDIKE, E. H. (see Koehler, P. F. M.) 933
THORNTON, D. D. (see Welch, W. J.) 1068
TIDMAN, D. A. (see Koopman, D. W.) 533
TING, C. C. (see Asbury, J. G.) 65
TOLK, N. (see Dworetsky, S.) 939
TOMOZAWA, YUKIO (see Mani, H. S.) 1084
TONER, W. T. (see Barna, A.) 360; 526(E)
TOWNES, C. H. (see Brewer, R. G.) 196
TOWNSEND, R. L., JR. (see Phillips, T. G.) 646
TREIMAN, S. B. (see Callan, Curtis G., Jr.) 1083
TREUSCH, J. (see Eckelt, P.) 656
TRIER, A. and W. HAEBERLI. Vector polarization in d-α scattering 915
TRILLING, G. H. (see Bland, R. W.) 1077
TRUEMAN, T. L. Superconvergence relations for arbitrary spin 822(E)
TRUONG, TRAN N. K_1^0-K_2^0 mass difference and possibility of an S-wave di-pion resonance above 500 MeV 300(E)
TUAN, S. F. and TAI TSUN WU. Theoretical discussions concerning η'-δ degeneracy 349

UEDA, S., I. TATSUZAKI, and Y. SHINDO. Change in dielectric constant of SbSi caused by illumination 453
UEDA, Y. (see Razmi, M. S. K.) 719; 938(E)
UGLUM, J. (see Bolon, G. C.) 926
UMEBAYASHI, H. (see Daniels, W. B.) 548
UNO, T. (see Takeda, S.) 829
URVATER, E., J. B. KOPELMAN, L. MARSHALL LIBBY, W. B. CAMPBELL, R. E. JUHALLA, and J. I. RHODE. Reaction $K^-+p\rightarrow K^-+p+\pi^-+\pi^+$ at 4.6 and 5.0 GeV/c; evaluation of $K^-\pi^-$ scattering cross section 1156

VAN ALLEN, J. A. (see Krimigis, S. M.) 1204
VANDERVEN, N. S. Spin-resonance transmission in paramagnetic metals 277
van der ZIEL, J. P. Davydov splitting of the ^2E lines in antiferromagnetic Cr_2O_3 237
VANIER, JACQUES. Stimulated emission and Rb spin-exchange cross section 333; 684(E)
VAN KRANENDONK, J. and M. WALKER. Theory of quadrupolar nuclear spin-lattice relaxation due to anharmonic Raman phonon

processes 701
VAN PUTTEN, J. (see Gomez, R.) 1022
VEESER, L., J. ELLIS, and W. HAEBERLI. Polarization measurements near isobaric analogs of states in $N=83$ isotones 1063
VENEZIANO, G. (see Rubinstein, H. R.) 411
VERHEY, L. J. (see Mischke, R. E.) 138; 383(E)
VERMA, SATYA DEV. High-energy primary electrons and the universal blackbody radiation 253
VICENTINI-MISSONI, M. (see Green, M. S.) 1113
VICTOR, G. A. and A. DALGARNO. Two-photon emission from the singlet metastable state of singly ionized lithium 1105
VOGT, E. W. (see Reimann, M. A.) 246
von EHRENSTEIN, D. (see Nolen, J. A., Jr.) 1140
von GUTFELD, R. J. and A. H. NETHERCOT, JR. Direct measurement of the electron velocity and mean free path in gallium 855
von JAN, R. Energy spectrum of channeled particles 303
VREDEVOE, L. A. (see DeWames, R. E.) 853

WAINWRIGHT, T. E. (see Alder, B. J.) 988
WALI, KAMESHWAR C. (see Sakita, Bunji) 29
WALKER, CHARLES T. (see Brandt, Ogden G.) 11
WALKER, J. K. (see Goitein, M.) 1016
WALKER, M. (see Van Kranendonk, J.) 701
WALKER, W. D., J. CARROLL, A. GARFINKEL, and B. Y. OH. New set of π-π phase shifts 630
WALL, N. S. (see Palevsky, H.) 1200
WALLIS, R. F. (see Kaplan, R.) 159
WALTERS, G. K. (see McAdams, H. H.) 436
WALTON, R. (see Smith, E.) 637
WANG, CHIA PING (see Frye, Glenn M., Jr.) 132
WANG, JIUNN-MING (see Freedman, Daniel Z.) 863
WATSON, H. D. D. (see James, P. B.) 179
WATTENBERG, A. (see Mischke, R. E.) 138; 383(E)
WEBB, G. W. (see Matthias, B. T.) 781
WEBER, J. Gravitational radiation 498
——— (see Sinsky, J.) 795
WEBSTER, MEDFORD S. (see Crennell, David J.) 86
——— (see Crennell, David J.) 323
WEGENER, HORST H. F. (see Czjzek, Gordon) 529
WEHMANN, A., E. ENGELS, JR., C. M. HOFFMAN, P. G. INNOCENTI, RICHARD WILSON, W. A. BLANPIED, D. J. DRICKEY, L. N. HAND, and D. G. STAIRS. Muon-pair decay modes of the vector mesons 929
WEILER, MARGARET H. (see Lax, Benjamin) 462
WEINBERG, STEVEN. Dynamical approach to current algebra 188
———. Precise relations between the spectra of vector and axial-vector mesons 507
———. Current commutator calculation of the K_{l4} form factors 1178(E)
——— (see Lee, T. D.) 1029
WEINER, RICHARD M. Bosonic leptons 376
WEINSTEIN, ROY (see Chase, R. C.) 710
WEISBARTH, GABRIEL S. (see Cohen, Roger W.) 336
WELCH, W. J., S. KEACHIE, D. D. THORNTON, and G. WRIXON. Measurement of the cosmic microwave background temperature at 1.5-cm wavelength 1068
WELSH, L. B. (see Jensen, M. A.) 997
WERNICK, J. H. (see Gegenwarth, R. E.) 9
WETSEL, GROVER C., JR., and EARLE L. KITTS, JR. Two-phonon absorption in ultrasonic paramagnetic resonance of uranium-doped calcium fluoride 841
WEYERS, JACQUES. Local current algebra and magnetic moments 1033
WHEATLEY, J. C. (see Abel, W. R.) 737
WHEELER, PAUL C. (see Cronin, James W.) 25; 152(E)
WHEELER, R. G. (see O'Leary, G. P.) 1054
WHITE, R. L. (see Phillips, T. G.) 646
WHITE, RONALD J. (see Byers Brown, W.) 1037; 1178(E)
_____ (see Byers Brown, W.) 1039; 1178(E)
WICK, GERALD L. (see Calaprice, Frank P.) 918
WIEGAND, CLYDE E. and DICK A. MACK. Measurement of K^--mesonic x rays from Li, Be, B, and C 685
WIGGINS, T. A. (see Cho, C. W.) 107
WILHJELM, P., G. A. KEYWORTH, G. C. KYKER, JR., D. L. SELLIN, N. R. ROBERSON, and E. G. BILPUCH. $Ar^{40}(d,p)$ excitation functions over the ground-state isobaric analog energy region 130
WILKIN, C. (see Bassel, R. H.) 871
WILKINSON, DAVID T. (see Partridge, R. B.) 557
WILLIAMS, B. F. and R. E. SIMON. Direct measurement of hot electron-phonon interactions in GaP 485
WILLIAMS, H. J. (see Bucher, E.) 1125
WILLIAMS, N. (see Nolen, J. A., Jr.) 1140
WILLIAMS, R. L. and B. H. BREAZEALE. Hg-Li pair energy level in Ge 1129
WILLMANN, R. B. (see Gutay, L. J.) 142
WILSON, B. G., T. MATHEWS, and R. H. JOHNSON. Intercomparison of neutron monitors during solar-flare increases 675
WILSON, E. J. N. (see Davies, J. D.) 62
WILSON, RICHARD (see Goitein, M.) 1016
——— (see Goitein, M.) 1018
——— (see Wehmann, A.) 929
WINDSOR, C. G. (see Lowde, R. D.) 1136
WINICK, H. (see Goitein, M.) 1016
WOJCICKI, STANLEY G. (see Flatté, Stanley M.) 366
WOLFF, P. A. (see Platzman, P. M.) 280
WOLSKY, G. (see Abrams, G. S.) 620
WONG, A. Y. and R. ROWBERG. Excitation and damping of drift waves 390
WOO, CHING-HUNG (see Sucher, Joseph) 723
WORLOCK, J. M. (see Fleury, P. A.) 665
WRIGHT, FULTON, JR., WILLIAM A. HINES, and W. D. KNIGHT. Spin-reversing

scattering and nuclear magnetic resonance in superconducting tin 114
WRIGHT, G. B. and A. MOORADIAN. Raman scattering from donor and acceptor impurities in silicon 608
WRIXON, G. (see Welch, W. J.) 1068
WU, C. S. (see Bernow, S.) 787
——— (see Hsu, F. H. H.) 889
WU, F. Y. Exactly soluble model of the ferroelectric phase transition in two dimensions 605
WU, TAI TSUN (see Tuan, S. F.) 349

YAMANOUCHI, T. (see Berlinghieri, J.) 1087
YANG, C. N. (see Abbud, F.) 980
YAO, TSU (see Rockmore, Ronald) 501
TAO, YORK-PENG (see Mani, H. S.) 1084
YATES, G. H. (see Mitchell, O. M. Mracek) 603
YEARIAN, M. R. (see Rand, R. E.) 469
——— (see Safrata, R. S.) 667
YEBOAH-AMANKWAH, D., L. GRODZINS, and RICHARD B. FRANKEL. Observation of centrifugal stretching in Sm^{152} 791
YEH, N. (see Baltay, C.) 93
YEH, YIN. Observation of the long-range correlation effect in the Rayleigh linewidth near the critical point of Xe 1043
YEN, E. Parameters η_{+-}, η_{00}, ϵ for K^0-$\overline{K}^0$ decay 513
YEN, W. L., R. L. EISNER, L. GUTAY, P. B. JOHNSON, P. R. KLEIN, R. E. PETERS, R. J. SAHNI, and G. W. TAUTFEST. Contribution of vector exchange to ρ^- production at 4.2 GeV/c 1091
YNTEMA, G. B. Thermodynamics of vortex flow in superconductors 642
YODH, G. B. Decay rates of $Y_0^*(1520)$ and its SU(3) classification 810
——— (see Meshkov, S.) 474
YOUNG, J. E. (see Das, T.) 759
YOUNG, KENNETH K., MICHAEL J. LONGO, and JEROME A. HELLAND. Test of time-reversal invariance in $K_{\mu 3}{}^0$ decay 806
YOUNG, P. G. (see Stokes, Richard H.) 611
YOUNG, T. E. (see Bowman, C. D.) 15
YUTA, H. (see Berlinghieri, J.) 1087

ZACHARIASEN, W. H. General theory of x-ray diffraction in real crystal 195
——— (see Matthias, B. T.) 781
ZAIDI, S. A. A. (see Moore, C. Fred) 345
ZAMICK, L. (see Sartoris, G.) 292
ZANELLO, D. (see Baltay, C.) 93
ZARE, RICHARD N. (see Crosley, David R.) 942
ZAWADZKI, WLODZIMIERZ (see Lax, Benjamin) 462
ZIMMERMANN, W., JR. (see Abel, W. R.) 737
ZIPF, T. F. (see Barna, A.) 360; 526(E)
ZUCKER, A. (see Morton, B. J.) 1007
ZUMINO, BRUNO (see Lee, T. D.) 1029
ZUMSTEG, F. C. (see Parks, R. D.) 47
ZWEIG, G. (see Gomez, R.) 1022